

Kerr-McGee Oil & Gas Onshore LP 1999 Broadway, Suite 3700 Denver, CO 80205

September 19, 2007

Mrs. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 922-18K1BS

T9S R22E

Section 18: NESW

NESW, 2524' FSL, 1256' FWL (surface) NESW, 2602' FSL, 1821' FWL (bottom hole)

Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-18K1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore and the W/2, W/2NE/4 and SE/4 of Section 18 (federal leases USA UTU-0359, USA-UTU 0359-A and USA-UTU 0461).

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

James C. Colligan III Landman DIV. OF OIL, GAS & MINING

RECEIVED

NOV 2 0 2007

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

Expires November 30, 2000

5. Lease Serial No.

UTU-0359

6. If Indian, Allottee or Tribe Name

FORM APPROVED

OMB No. 1004-0136

TRI	RΔI	SH	RF	ACF

a. Type of Work: X DRILL REENTER	7. If Unit or CA Agreement, Name and No
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1a. Type of Work: N DRILL	EENTER		1 . II chil di Cir rigideinei	n, ramo and ro.
			UNIT #891008900A	
b. Type of Well: Oil Well Gas Well Other	Single Zone	Multiple Zone	8. Lease Name and Well NBU 922-18K1B	
2. Name of Operator KERR MCGEE OIL AND GAS ONSHORE LP			9. API Well No. 43-047-	39824
3A. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area (435) 781-7024	code)	10. Field and Pool, or Expl	oratory
4. Location of Well (Report location clearly and in accordance with At surface NE/SW 2524'FSL, 1256'FWL At proposed prod. Zone NE/SW 2602'FSL, 1821'FWL	h any State requirements.*)		11. Sec., T., R., M., or Blk	•
			SEC. 18, T9S, R22E	· · · · · · · · · · · · · · · · · · ·
 Distance in miles and direction from nearest town or post office 27.95 +/- MILES FROM OURAY, UTAH 	*		12. County or Parish UINTAH	13. State UTAH
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in lease	17. Spacing Unit de	dicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. REFER TO TOPO C	10 D 1 D 1	20. BLM/BIA Bond RLB0005239	No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4899'GL	22. Approximate date work v	vill start*	23. Estimated duration TO BE DETERMINE	D
	24 Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

25. Signature	Name (Printed/Typed) SHEILA UPCHEGO	Date 11/16/2007
SENIOR LAND ADMIN SPECIALIST		,
Approved by Signature	Name (Printed/Typed) BRADLEY G. HILL	Date -03-07
Title	OfficeNVIRONMENTAL MANAGER	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

629224x 44324054 40.035669 -109.485405

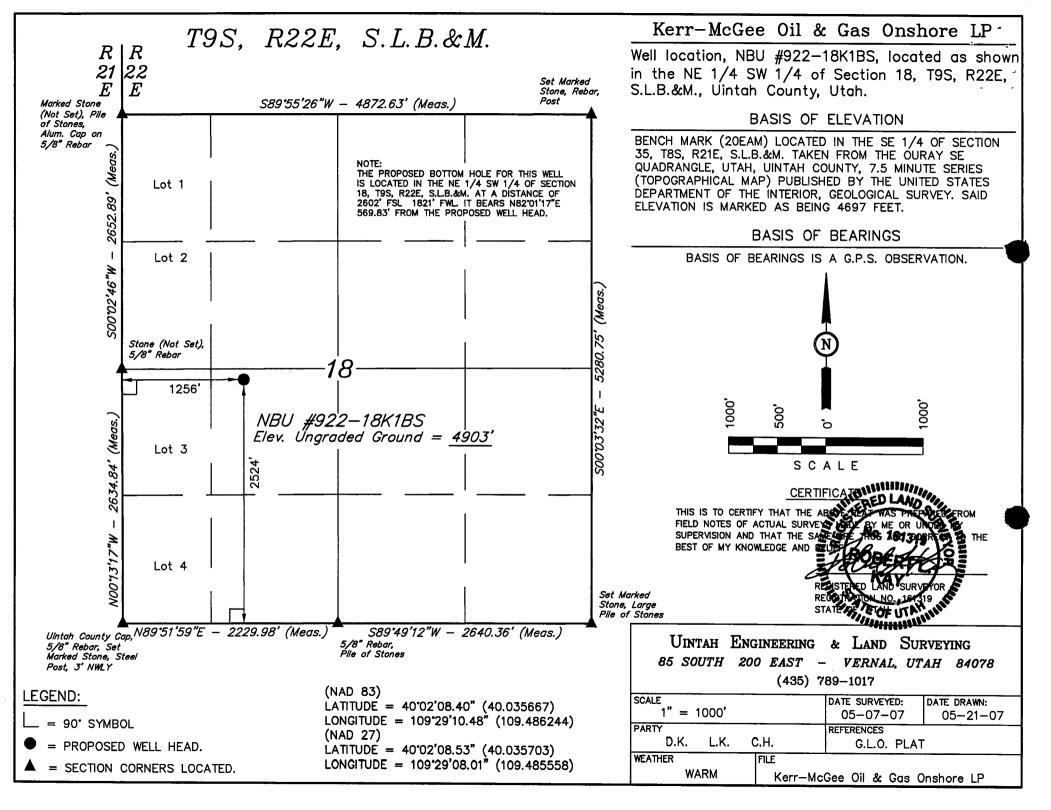
Federal Approval of this

629396 X Necessary 44326324

40.035889 -109.48 3391 **RECEIVED**

NOV 2 0 2007

DIV. OF OIL, GAS & MINING



NBU 922-18K1BS NE/SW SEC. 18, T9S, R22E UINTAH COUNTY, UTAH UTU-0359

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

Formation	<u>Depth</u>
Uinta	0- Surface
Green River	1752'
Top of Birds Nest Water	2050'
Mahogany	2412'
Wasatch	4999'
Mesaverde	7764'
MVU2	8685'
MVL1	9183'
TVD	9820'
TD (MD)	9889'

2. <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:</u>

Substance	<u>Formation</u>	<u>Depth</u>
	Green River	1752'
	Top of Birds Nest Water	2050'
	Mahogany	2412'
Gas	Wasatch	4999'
Gas	Mesaverde	7764'
Gas	MVU2	8685'
Gas	MVL1	9183'
Water	N/A	
Other Minerals	N/A	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP.

5. <u>Drilling Fluids Program</u>:

Please see the Natural Buttes Unit SOP.

6. Evaluation Program:

Please see the Natural Buttes Unit SOP.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9889' TD, approximately equals 6131 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3955 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please see Natural Buttes Unit SOP.

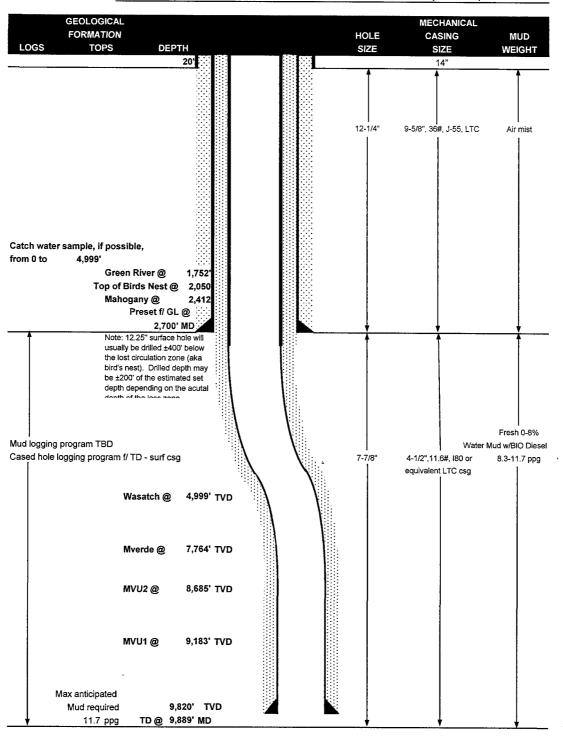
10. Other Information:

Please see Natural Buttes Unit SOP.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE November 16, 2007 WELL NAME NBU 922-18K1BS TD 9,889' MD 9,820' TVD FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,899' GL KB 4,914' SURFACE LOCATION NE/SW SEC. 18, T9S, R22E 2524'FSL, 1256'FWL 40.035667 Longitude: 109.486244 Latitude: NE/SW SEC. 18, T9S, R22E 2602'FSL, 1821'FWL BTM HOLE LOCATION OBJECTIVE ZONE(S) Wasatch/Mesaverde ADDITIONAL INFO Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

ı									DESIGN FACTO	DRS
	SIZE	IN.	TERV	AL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"		0-40'							
					l i			3520	2020	453000
SURFACE	9-5/8"	0	to	2700	36.00	J-55	∠LTC	0.92	1.60	5.93
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	9889	11.60	I-80	LTC	2.03	1.06	2.01
									1	
			•							

¹⁾ Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 0.0 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3841 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD		Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1	777.	+ .25 pps flocele	2.0	0070	10.00	1.10
TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
		+ 2% CaCl + .25 pps flocele			, , , ,	
TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to	surface, o	ption 2 will	be utilized	
Option 2 LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite	360	35%	12.60	1.81
		+ 25 pps Flocele + 3% salt BWOW				
TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
		+ 25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
						15.
PRODUCTION LEAD	7,259'	Premium Lite II + 3% KCI + 0.25 pps	790	60%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	2,630'	50/50 Poz/G + 10% salt + 2% gel	740	60%	14.30	1.31
		+.1% R-3				1

^{*}Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

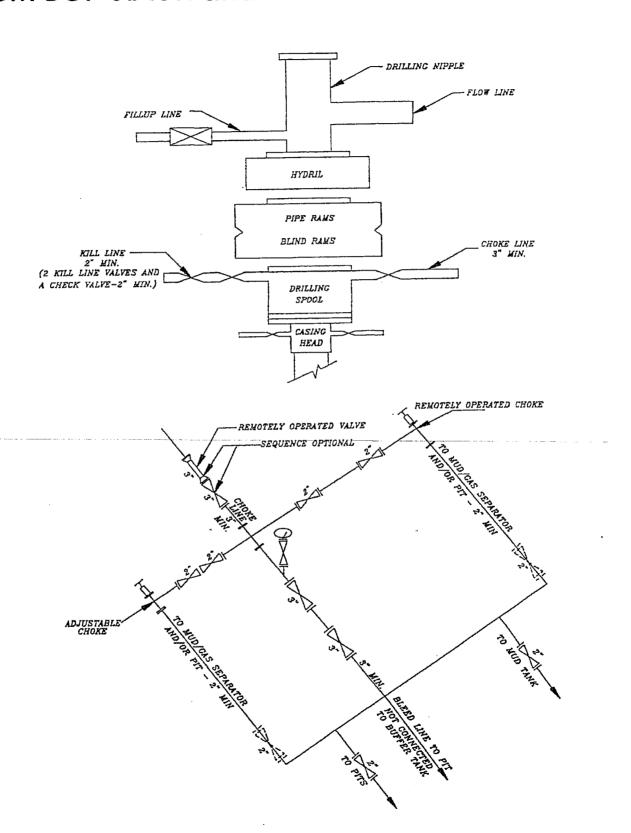
BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:		DATE:	
	Brad Laney		
DRILLING SUPERINTENDENT:		DATE:	
	Randy Bayne	-	

5M BOP STACK and CHOKE MANIFOLD SYSTEM





Weatherford*

Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU 922-18K1BS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 2

DATE: OCTOBER 3, 2007

Weatherford International, Ltd.

15710 John F. Kennedy Blvd Houston, Texas 77032 USA +1.281.260.1300 Main +1.281.260.4730 Fax www.weatherford.com





ANADARKO KERR MCGEE OIL & GAS NBU 922-18K1BS UINTAH COUNTY, UTAH



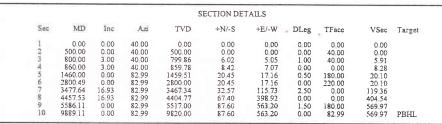


Azimuths to Grid North

True North: -0.97° Magnetic North: 10.60°

> Magnetic Field Strength: 52767nT Dip Angle: 66.02° Date: 9/26/2007

Model: bggm2006



			1	WELL DETAILS			
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
18K1BS	0.00	0.00	14542635.40	2064382.20	40°02'08.384N	109°29'07.423W	N/A

		CASING	GDETAILS	
No.	TVD	MD	Name	Size
1	2700.00	2700.49	9 5/8"	9.62

		FORMA	TION TOP	DETAILS
N	Vo.	TVDPath	MDPath	Formation
1 2	2	5017.00 7763.00	5084.67 7832.11	WASATCH MESAVERDE

FIELD DETAILS

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

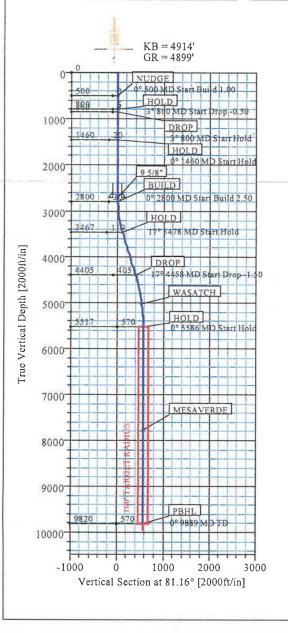
rodetic System: Universal Transverse Mercator (USfeet)

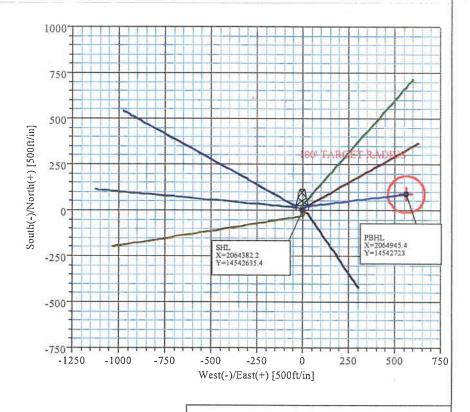
Filingoid: NAD 77 (Clerke 1866)

Geodetic System: Universal Transverse Mercator (USfeet)
Ellipsoid: NAD27 (Clarke 1866)
Zone: UTM Zone 12, North 114W to 108W
Magnetic Model: bggm2006

System Datum: Mean Sea Level Local North: Grid North







Plan: Plan #2 18K1BS (18K1BS/1)

Created By: R. JOYNER

Date: 10/4/2007

Weatherford Drilling Services **DIRECTIONAL PLAN REPORT**



Company: Anadarko-Kerr-McGee

Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

NBU 922-18K1BS PAD EFKL Site:

Well: 18K1BS

Wellpath:

Date: 10/4/2007 Vertical (TVD) Reference:

Co-ordinate(NE) Reference:

Time: 08:06:32 Site: NBU 922-18K1BS PAD EFKL, Grid Nort

SITE 4914.0

Well (0.00N,0.00E,81.16Azi)

Minimum Curvature Db: Sybase

Plan #2 18K1BS Plan:

Principal: Yes Survey Calculation Method: Date Composed:

Section (VS) Reference:

Version:

Tied-to:

10/4/2007

From Surface

Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Map System: Universal Transverse Mercator (USfeet)

Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level

Map Zone:

UTM Zone 12, North 114W to 108W

Coordinate System: Geomagnetic Model: Site Centre bggm2006

NBU 922-18K1BS PAD EFKL Site:

2524 FSL, 1256 FWL - SEC18 T9S R22E

0.00 ft

4899.00 ft

Site Position: From: Position Uncertainty:

Ground Level:

Northing: 14542635.40 ft 2064382.20 ft Easting:

Latitude: Longitude: 40 2 8.384 N 7.423 W

North Reference: Grid Convergence: Grid 0.97 deg

Well: 18K1BS

0.00 ft 0.00 ft Easting:

Northing: 14542635.40 ft 2064382.20 ft

Slot Name: Latitude: Longitude:

ft

0.00

40 2 8.384 N 109 29 7.423 W

Position Uncertainty: 0.00 ft

Wellpath: 1 Current Datum:

Magnetic Data:

Field Strength:

Well Position:

SITE

+N/-S

Height 4914.00 ft

9/26/2007 52767 nT Vertical Section:

0.00

Depth From (TVD)

+N/-Sft

0.00

Drilled From: Surface

0.00 ft Tie-on Depth: Above System Datum: Mean Sea Level 11.57 deg Declination:

Mag Dip Angle: +E/-W

66.02 deg Direction

deg 81.16

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100f	Build t deg/100f	Turn t deg/100ft	TFO deg	Target
0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	40.00	500.00	0.00	0.00	0.00	0.00	0.00	40.00	
800.00	3.00	40.00	799.86	6.02	5.05	1.00	1.00	0.00	40.00	
860.00	3.00	40.00	859.78	8.42	7.07	0.00	0.00	0.00	0.00	
1460.00	0.00	82.99	1459.51	20.45	17.16	0.50	-0.50	0.00	180.00	•
2800.49	0.00	82.99	2800.00	20.45	17.16	0.00	0.00	0.00	220.00	
3477.64	16.93	82.99	3467.34	32.57	115.73	2.50	2.50	0.00	0.00	
4457.53	16.93	82.99	4404.77	67.40	398.92	0.00	0.00	0.00	0.00	
5586.11	0.00	82.99	5517.00	87.60	563.20	1.50	-1.50	0.00	180.00	
9889.11	0.00	82.99	9820.00	87.60	563.20	0.00	0.00	0.00	82.99	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
500.00	0.00	40.00	500.00	0.00	0.00	0.00	0.00	14542635.40	2064382.20	NUDGE
600.00	1.00	40.00	599.99	0.67	0.56	0.66	1.00	14542636.07	2064382.76	
700.00	2.00	40.00	699.96	2.67	2.24	2.63	1.00	14542638.07	2064384.44	
800.00	3.00	40.00	799.86	6.02	5.05	5.91	1.00	14542641.42	2064387.25	HOLD
860.00	3.00	40.00	859.78	8.42	7.07	8.28	0.00	14542643.82	2064389.27	DROP
900.00	2.80	40.00	899.73	9.97	8.37	9.80	0.50	14542645.37	2064390.57	
1000.00	2.30	40.00	999.63	13.38	11.23	13.15	0.50	14542648.78	2064393.43	
1100.00	1.80	40.00	1099.57	16.12	13.53	15.84	0.50	14542651.52	2064395.73	
1200.00	1.30	40.00	1199.53	18.19	15.26	17.88	0.50	14542653.59	2064397.46	
1300.00	0.80	40.00	1299.51	19.60	16.44	19.26	0.50	14542655.00	2064398.64	
1400.00	0.30	40.00	1399.51	20.33	17.06	19.98	0.50	14542655.73	2064399.26	
1460.00	0.00	82.99	1459.51	20.45	17.16	20.10	0.50	14542655.85	2064399.36	HOLD





Company: Anadarko-Kerr-McGee

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Field:

Site: NBU 922-18K1BS PAD EFKL

Well: 18K1BS

Wellpath: 1

Date: 10/4/2007

Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Section (VS) Reference: Survey Calculation Method:

Time: 08:06:32

Site: NBU 922-18K1BS PAD EFKL, Grid Nort

SITE 4914.0

Well (0.00N,0.00E,81.16Azi)

Minimum Curvature Db: Sybase

irvey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Сотте
1500.00	0.00	82.99	1499.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
1600.00	0.00	82.99	1599.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
1700.00	0.00	82.99	1699.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
1800.00	0.00	82.99	1799.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
1900.00	0.00	82.99	1899.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2000.00	0.00	82.99	1999.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2100.00	0.00	82.99	2099.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2200.00	0.00	82.99	2199.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2300.00	0.00	82.99	2299.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2400.00	0.00	82.99	2399.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2500.00	0.00	82.99	2499.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2600.00	0.00	82.99	2599.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2700.00	0.00	82.99	2699.51	20.45	17.16	20.10	0.00	14542655.85	2064399.36	
2700.49	0.00	82.99	2700.00	20.45	17.16	20.40	0.00	14540655.05	2064222	0.5/01
2800.00	0.00	82.99 82.99	2700.00 2799.51	20.45 20.45	17.16 17.16	20.10	0.00	14542655.85	2064399.36	9 5/8"
2800.00	0.00	82.99 82.99	2799.51 2800.00	20.45	17.16	20.10	0.00	14542655.85	2064399.36	DIW D
2900.00	2.49	82.99 82.99	2800.00 2899.48	20.45	17.16	20.10	0.00	14542655.85	2064399.36	RAILD
3000.00	4.99	82.99			19.30	22.26	2.50	14542656.11	2064401.50	
3000.00	4.99	02.99	2999.25	21.51	25.77	28.77	2.50	14542656.91	2064407.97	
3100.00	7.49	82.99	3098.65	22.84	36.56	39.63	2.50	14542658.24	2064418.76	
3200.00	9.99	82.99	3197.49	24.69	51.63	54.81	2.50	14542660.09	2064433.83	
3300.00	12.49	82.99	3295.56	27.07	70.97	74.29	2.50	14542662.47	2064453.17	
3400.00	14.99	82.99	3392.69	29.97	94.54	98.02	2.50	14542665.37	2064476.74	
3477.64	16.93	82.99	3467.34	32.57	115.73	119.36	2.50	14542667.97	2064497.93	HOLD
3500.00	16.93	82.99	3488.73	33.37	122.19	125.87	0.00	14542668.77	2064504.39	
3600.00	16.93	82.99	3584.40	36.92	151.09	154.97	0.00	14542672.32	2064533,29	
3700.00	16.93	82.99	3680.06	40.47	179.99	184.07	0.00	14542675.87	2064562.19	
3800.00	16.93	82.99	3775.73	44.03	208.89	213.18	0.00	14542679.43	2064591.09	
3900.00	16.93	82.99	3871.40	47.58	237.79	242.28	0.00	14542682.98	2064619.99	
4000.00	16.93	82.99	3967.06	51.14	266.69	271.38	0.00	14542686.54	2064648.89	
4100.00	16.93	82.99	4062.73	54.69	295.59	300.49				
4200.00	16.93	82.99	4158.40	58.25	324.49	329.59	0.00	14542690.09 14542693.65	2064677.79	
4300.00	16.93	82.99	4254.06	61.80	353.39	358.69	0.00		2064706.69	
4400.00	16.93	82.99	4349.73	65.35	382.29	387.80	0.00 0.00	14542697.20 14542700.75	2064735.59 2064764.49	4
4457.53 4500.00	16.93 16.29	82.99	4404.77	67.40	398.92	404.54	0.00	14542702.80	2064781.12	DROP
4600.00	16.29	82.99 82.99	4445.46 4541.80	68.88 72.15	410.97 437.56	416.67	1.50	14542704.28	2064793.17	
4700.00	13.29	82.99 82.99	4638.81	72.15 75.11	437.56 461.64	443.45 467.70	1.50	14542707.55	2064819.76	
4800.00	11.79	82.99	4736.43	75.11 77.76	483.20	489,41	1.50 1.50	14542710.51 14542713.16	2064843.84 2064865.40	
1000 00	40.00									
4900.00	10.29	82.99	4834.57	80.10	502.20	508.55	1.50	14542715.50	2064884.40	
5000.00	8.79	82.99	4933.18	82.12	518.66	525.12	1.50	14542717.52	2064900.86	141404-0
5084.67	7.52	82.99	5017.00	83.59	530.58	537.12	1.50	14542718.99	2064912.78	WASATCH
5100.00 5200.00	7.29 5.70	82.99	5032.20 5131.54	83.83	532.54	539.10	1.50	14542719.23	2064914.74	
3200.00	5.79	82.99	0101.04	85.22	543.85	550.48	1.50	14542720.62	2064926.05	
5300.00	4.29	82.99	5231.16	86.29	552.57	559.27	1.50	14542721.69	2064934.77	
5400.00	2.79	82.99	5330.96	87.05	558.70	565.44	1.50	14542722.45	2064940.90	
5500.00	1.29	82.99	5430.89	87.48	562.24	569.00	1.50	14542722.88	2064944.44	
5586.11 5600.00	0.00 0.00	82.99 82.99	5517.00 5530.89	87.60 87.60	563.20 563.20	569.97 569.97	1.50 0.00	14542723.00 14542723.00	2064945.40 2064945.40	HOLD
5700.00	0.00	82.99	5630.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
5800.00	0.00	82.99	5730.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
5900.00	0.00	82.99	5830.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6000.00 6100.00	0.00 0.00	82.99 82.99	5930.89 6030.89	87.60 87.60	563.20 563.20	569.97 569.97	0.00 0.00	14542723.00 14542723.00	2064945.40 2064945.40	
		0/44								

Weatherford Drilling Services DIRECTIONAL PLAN REPORT



Company: Anadarko-Kerr-McGee Field:

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Site: NBU 922-18K1BS PAD EFKL

Well: 18K1BS

Wellpath: 1

Date: 10/4/2007

Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference:

Survey Calculation Method:

Site: NBU 922-18K1BS PAD EFKL, Grid Nort SITE 4914.0

Well (0.00N,0.00E,81.16Azi),

Minimum Curvature

Time: 08:06:32

Db: Sybase

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Commen
6200.00	0.00	82.99	6130.89	87.60	563,20	569.97	0.00	14542723.00	2064945.40	
6300.00	0.00	82.99	6230.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6400.00	0.00	82.99	6330.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6500.00	0.00	82.99	6430.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6600.00	0.00	82.99	6530.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6700.00	0.00	82.99	6630,89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6800.00	0.00	82.99	6730.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
6900.00	0.00	82.99	6830.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7000.00	0.00	82.99	6930.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7100.00	0.00	82.99	7030.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7200.00	0.00	82.99	7130.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7300.00	0.00	82.99	7230.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7400.00	0.00	82.99	7330.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7500.00	0.00	82.99	7430.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7600.00	0.00	82.99	7530.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7700.00	0.00	82.99	7630.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7800.00	0.00	82.99	7730.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
7832.11	0.00	82.99	7763.00	87.60	563.20	569.97	0.00	14542723.00	2064945.40	MESAVERDE
7900.00	0.00	82.99	7830.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8000.00	0.00	82.99	7930.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8100.00	0.00	82.99	8030.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8200.00	0.00	82.99	8130.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8300.00	0.00	82.99	8230.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8400.00	0.00	82.99	8330.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8500.00	0.00	82.99	8430.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8600.00	0.00	82.99	8530.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8700.00	0.00	82.99	8630.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8800.00	0.00	82.99	8730.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
8900.00	0.00	82.99	8830.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9000.00	0.00	82.99	8930.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9100.00	0.00	82.99	9030.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	٠
9200.00	0.00	82.99	9130.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	- 4
9300.00	0.00	82.99	9230.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9400.00	0.00	82.99	9330.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9500.00	0.00	82.99	9430.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9600.00	0.00	82.99	9530.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9700.00	0.00	82.99	9630.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9800.00	0.00	82.99	9730.89	87.60	563.20	569.97	0.00	14542723.00	2064945.40	
9889.11	0.00	82.99	9820.00	87.60	563.20	569.97	0.00	14542723.00	2064945.40	PBHL

т	a r	'n	۵	f.
1.3	иг	z	Ľ	ť:

Name	Descripti Dip.	ion Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft			tude> Sec		ongitude> lin Sec
PBHL -Circle (Ra -Plan hit ta			9820.00	87.60	563.20	14542723.002	2064945.40	40	2	9.155 N	109 29	0.163 W

Weatherford Drilling Services DIRECTIONAL PLAN REPORT



Company: Anadarko-Kerr-McGee

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) NBU 922-18K1BS PAD EFKL Field:

Site:

Well: 18K1BS

Wellpath: 1

Date: 10/4/2007

Co-ordinate(NE) Reference:

Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 08:06:32

Site: NBU 922-18K1BS PAD EFKL, Grid Nort

SITE 4914.0

Well (0.00N,0.00E,81.16Azi)

Minimum Curvature Db: Sybase

Casing P	oin:	Ĺ
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MD ft	TVD ft	Diameter in	Hole Size in	Name	
2700.49	2700.00	9.62	12.25	9 5/8"	

Annotation

MD ft	TVD ft		
500.00	500.00	NUDGE	
800.00	799.86	HOLD	I
860.00	859.78	DROP	I
1460.00	1459.51	HOLD	· · · · · · · · · · · · · · · · · · ·
2800.49	2800.00	BUILD	· · · · · · · · · · · · · · · · · · ·
3477.64	3467.34	HOLD	· · · · · · · · · · · · · · · · · · ·
4457.53	4404.77	DROP	· · · · · · · · · · · · · · · · · · ·
5586.11	5517.00	HOLD	· · · · · · · · · · · · · · · · · · ·
9889.11	9820.00	PBHL	

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5084.67	5017.00	WASATCH		0.00	0.00
7832.11	7763.00	MESAVERDE		0.00	0.00



Weatherford Drilling Services

GeoDec v4.1.130

Report Date:	September 2	6, 2007	7						
Job Number:									
Customer:	ANADARKO-KE		CE .						
Well Name:	NBU 922-18K	1BS							
API Number:									
Rig Name: Location:	UNITAH COUN	יייע דווייז	\U						
Block:	UNITAII COUN	11, 012	711						
Engineer:	R JOYNER								
Universal Transve	erse Mercator		Geodetic Latitude	/ Longitude					
System: Zone 12l	N (114 W to 108 W	V)	System: Latitude /	Longitude					
Projection: Transv	verse Mercator/Ga	uss Krug	er Projection: Geode	tic Latitude and Longitude					
Datum: NAD 192	7 (NADCON CONU	JS)	Datum: NAD 1927	(NADCON CONUS)					
Ellipsoid: Clarke	1866		Ellipsoid: Clarke 1866						
North/South 1454	42635.400 USFT		Latitude 40 2 8.38	41996 DMS					
East/West 20643	882.200 USFT		Longitude -109 29	7.4227840 DMS					
Grid Convergence	e: .97448353°		_						
Total Correction:	+10.5945°								
Geodetic Location	n WGS84	Elevati	on = 1493.0 Mete	ers					
Latitude =	40.03566° N	40°	2 min 8.384 s	sec					
Longitude = 1	.09.48540° W	109°	29 min 7.423 s	sec					
Magnetic Declina	tion = +11.5	690°	[True North Off:	set]					
Local Gravity =		95 g							
Local Field Streng	-	28 nT	Mag Vector X =	20993 nT					
Dip =	66.02		Mag Vector Y =	4297 nT					
Model File:	bggm20		Mag Vector Z =	48177 nT					
Spud Date:	Sep 26,	2007	Mag Vector H =	21428 nT					
		-							
Signed:			Date:						

NBU 922-18K1BS NE/SW SEC. 18, T9S, R22E UINTAH COUNTY, UTAH UTU-0359

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 0.15 +/- miles of access road is proposed. Please refer to the attached Topo Map B.

3. <u>Location of Existing Wells Within a 1-Mile Radius:</u>

Please refer to Topo Map C.

4. <u>Location of Existing & Proposed Facilities:</u>

Please see the Natural Buttes Unit SOP.

Approximately 3394" +/- of 10" steel pipeline is proposed from the location to an existing pipeline. Refer to the attached Topo Map D.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. <u>Location and Type of Water Supply:</u>

Please see the Natural Buttes SOP.

6. Source of Construction Materials:

Please see the Natural Buttes SOP.

7. Methods of Handling Waste Materials:

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (Request is in lieu of filing Form 3160-5, after initial production).

8. Ancillary Facilities:

Please see the Natural Buttes SOP.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be resurveyed and a form 3160-5 will be submitted.

10. Plans for Reclamation of the Surface:

Please see the Natural Buttes SOP.

11. Surface Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe P.O. Box 70 Fort Duchesne, Utah 84026 (435) 722-5141

12. Other Information:

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

13. <u>Lessee's or Operator's Representative & Certification:</u>

Sheila Ucphego Senior Land Admin Specialist Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, UT 84078 (435) 781-7024 Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Theila Upchego Date

Kerr-McGee Oil & Gas Onshore LP NBU #922-18K2,K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS SECTION 18, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #922-18E2 TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 150' TO THE PROPOSED #922-18E2 AND THE BEGINNNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.75 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS LOCATED IN UINTAH COUNTY, UTAH

SECTION 18, T9S, R22E, S.L.B.&M.

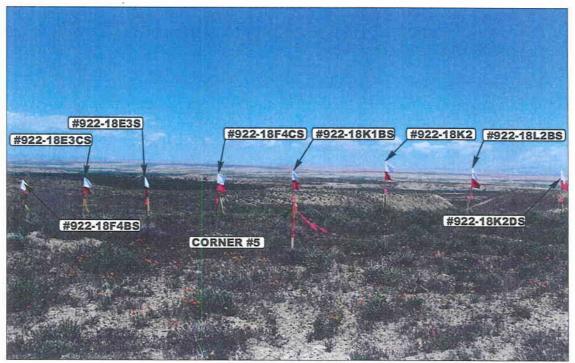


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHE ASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



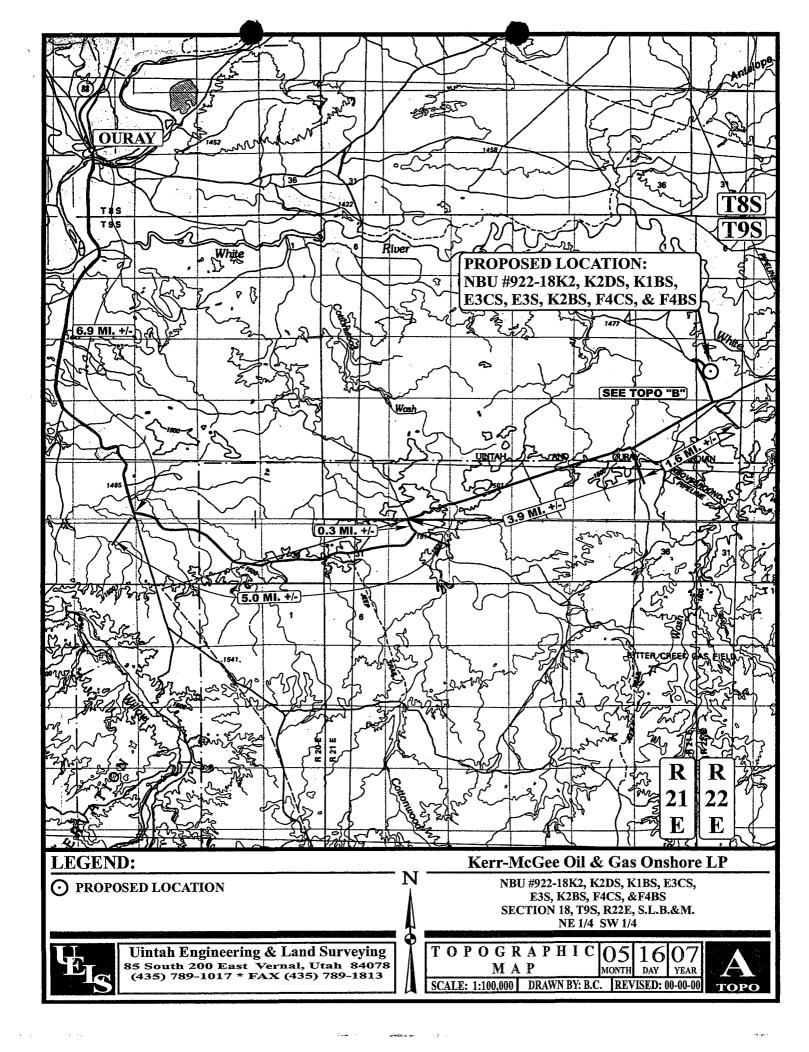
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

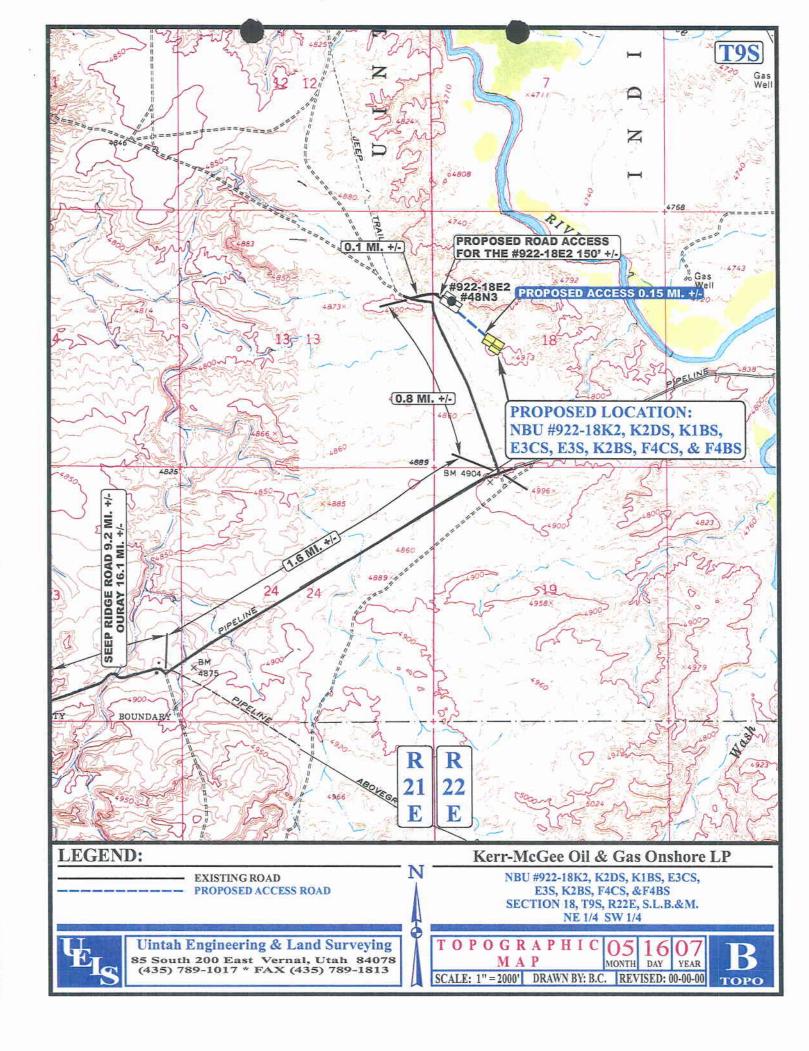
LOCATION PHOTOS

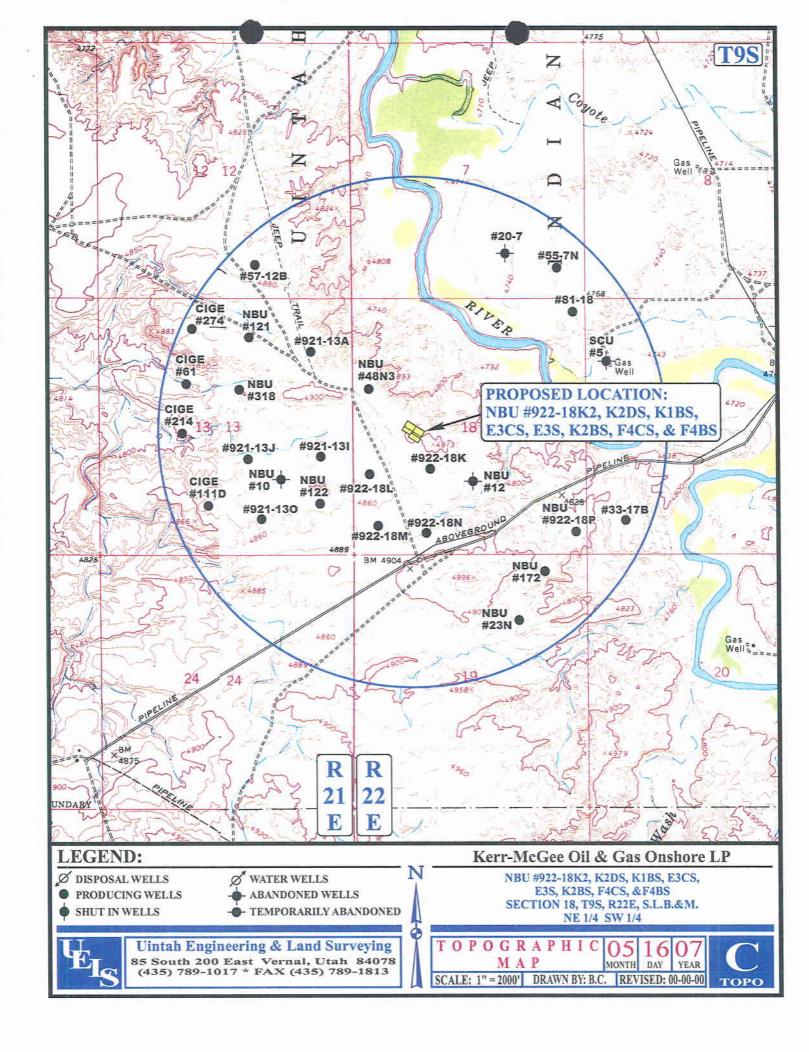
05 16 07 MONTH DAY YEAR

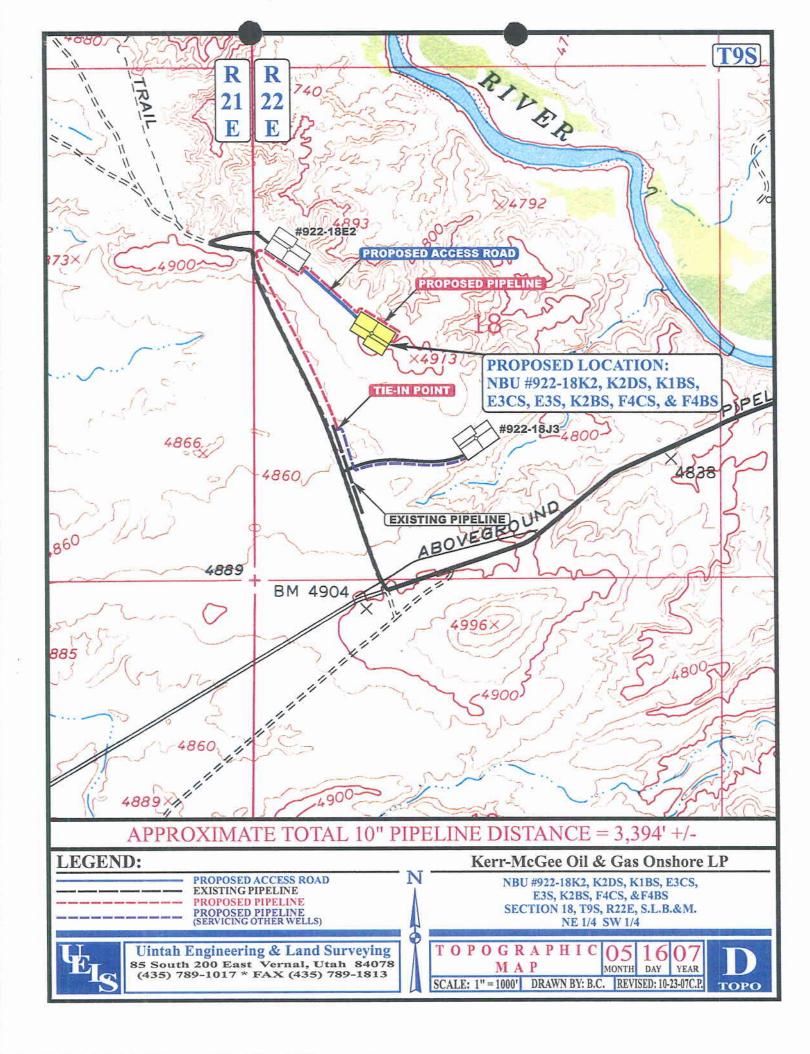
РНОТО

TAKEN BY: L.K. | DRAWN BY: B.C. | REVISED: 00-00-00









Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS, E3S, K2BS, F4CS, & F4BS

LOCATED IN UINTAH COUNTY, UTAH SECTION 18, T9S, R22E, S.L.B.&M.

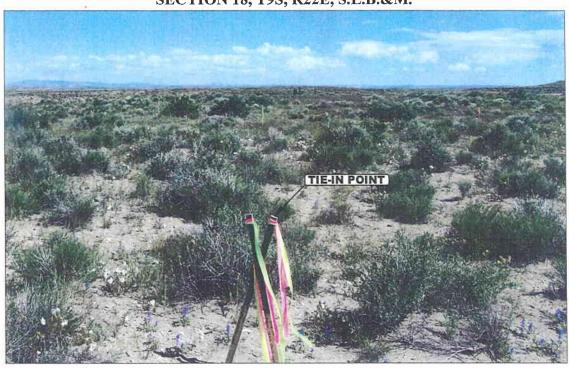


PHOTO: VIEW OF TIE-IN POINT

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: SOUTHEASTERLY



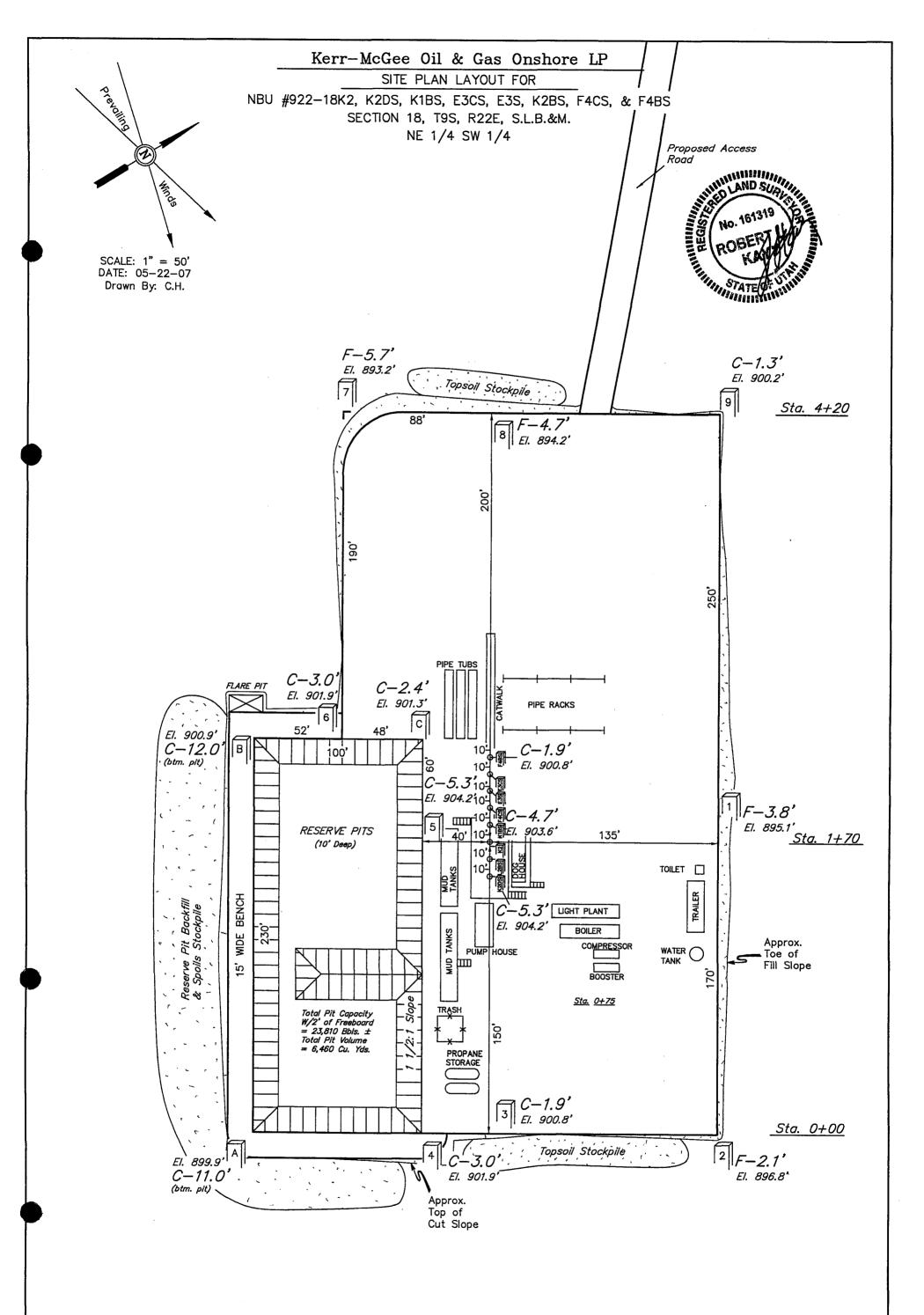
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

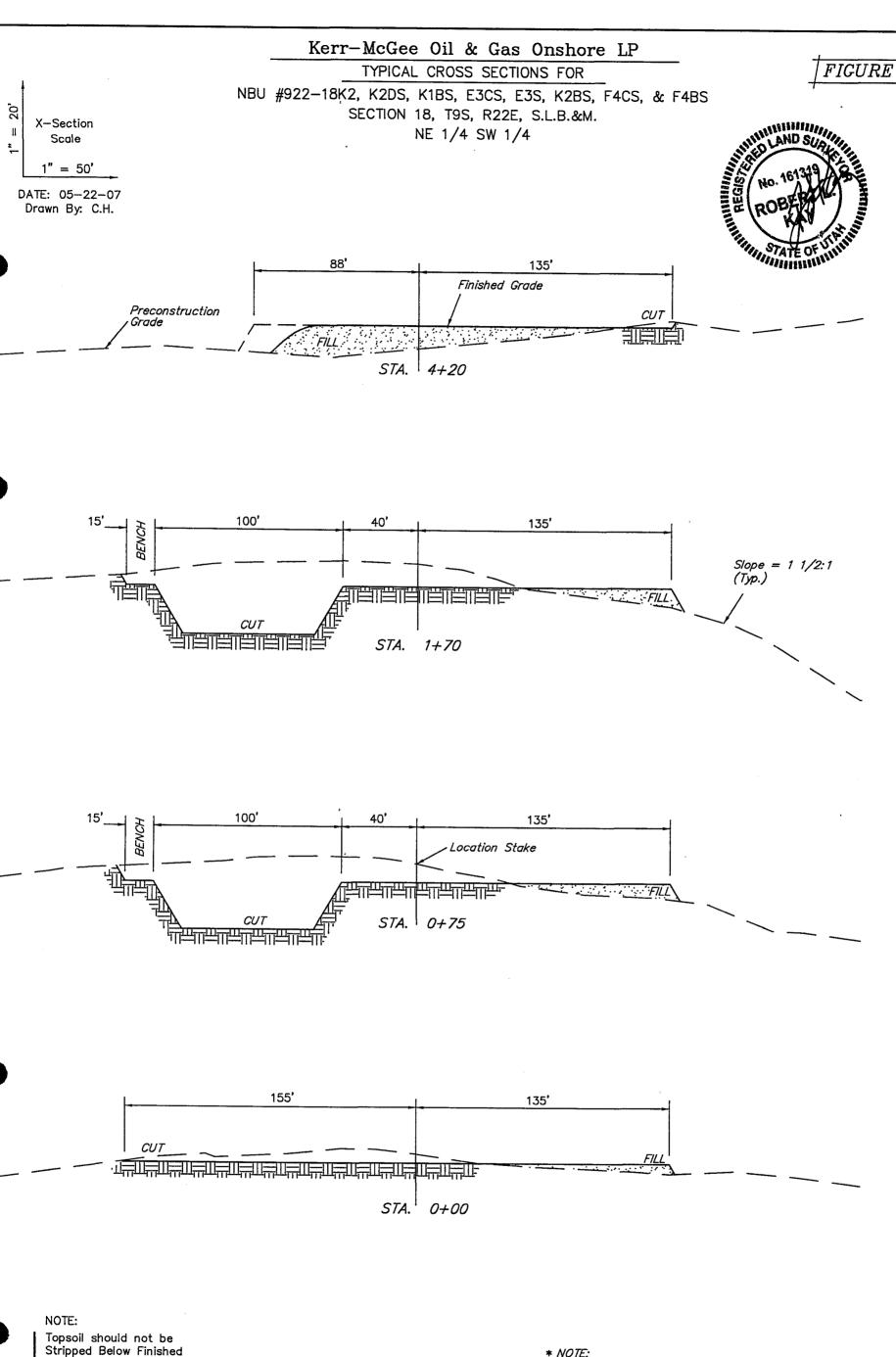
PIPELINE PHOTOS

05 16 07 MONTH DAY YEAR

РНОТО

TAKEN BY: L.K. | DRAWN BY: B.C. | REVISED: 00-00-00





APPROXIMATE YARDAGES

Grade on Substructure Area.

CUT

= 4,490 Cu. Yds. (12") Topsoil Stripping

Remaining Location

= 11,170 Cu. Yds. TOTAL CUT

FILL

7,940 CU.YDS.

15,660 CU.YDS.

* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL

= 7,720 Cu. Yds.

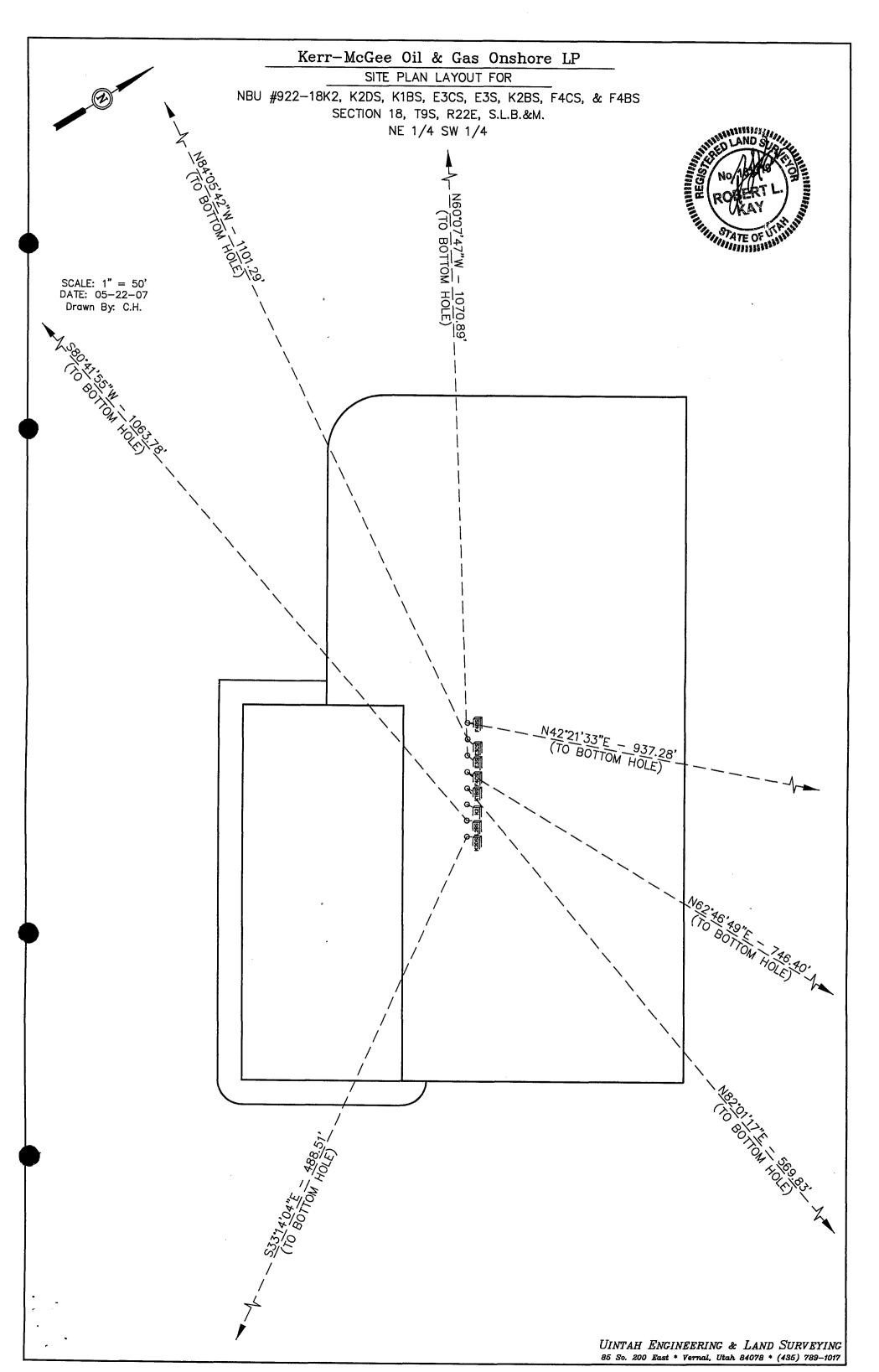
Topsoil & Pit Backfill

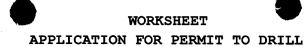
= 7,720 Cu. Yds.

(1/2 Pit Vol.)

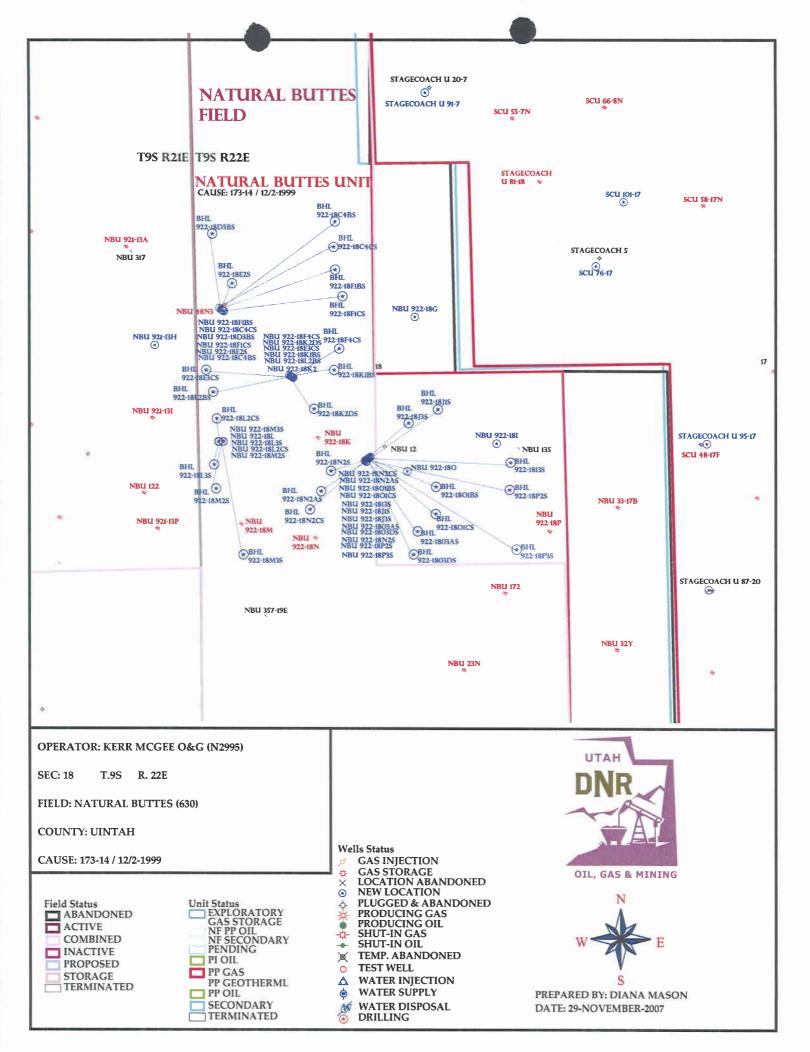
EXCESS UNBALANCE O Cu. Yds.

(After Interim Rehabilitation)





APD RECEIVED: 11/20/2007	API NO. ASSIGNED: 43-047-39824			
WELL NAME: NBU 922-18K1BS				
OPERATOR: KERR-MCGEE OIL & GAS (N2995)	PHONE NUMBER: 435-781-7024			
CONTACT: SHEILA UPCHEGO				
DDODOGED LOCATION	TNODEGE LOGIEN DV			
PROPOSED LOCATION: NESW 18 090S 220E	INSPECT LOCATN BY: / /			
SURFACE: 2524 FSL 1256 FWL	Tech Review Initials Date			
BOTTOM: 2602 FSL 1821 FWL	Engineering			
COUNTY: UINTAH	Geology			
LATITUDE: 40.03567 LONGITUDE: -109.4854	Geology			
UTM SURF EASTINGS: 629224 NORTHINGS: 443260	Surface			
LEASE TYPE: 1 - Federal LEASE NUMBER: UTU-0359 SURFACE OWNER: 2 - Indian	PROPOSED FORMATION: WSMVD COALBED METHANE WELL? NO			
RECEIVED AND/OR REVIEWED:	LOCATION AND SITING:			
Plat	R649-2-3.			
Bond: Fed[1] Ind[] Sta[] Fee[]	Unit: NATURAL BUTTES			
(No. RLB0005239)				
Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13	R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells			
Water Permit	R649-3-3. Exception			
(No. 43-8496)				
RDCC Review (Y/N)	Drilling Unit Board Cause No:			
(Date:)	Eff Date: 12-9-1994			
Fee Surf Agreement (Y/N)	Siting: 400 W ubdg sieneumm. Tra			
MA Intent to Commingle (Y/N)	R649-3-11. Directional Drill			
COMMENTS: Sop Seperate	Sile			
STIPULATIONS: 1- Teder Opportunity S	rong() HALE			



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

November 30, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API# WELL NAME LOCATION

(Proposed PZ Wasatch/MesaVerde)

43-047-39821 NBU 922-18F4CS Sec 18 T09S R22E 2529 FSL 1248 FWL BHL Sec 18 T09S R22E 2406 FNL 1895 FWL

43-047-39822 NBU 922-18K2DS Sec 18 T09S R22E 2508 FSL 1282 FWL BHL Sec 18 T09S R22E 2099 FSL 1548 FWL

43-047-39823 NBU 922-18E3CS Sec 18 T09S R22E 2540 FSL 1231 FWL

BHL Sec 18 T09S R22E 2632 FSL 0136 FWL

43-047-39824 NBU 922-18K1BS Sec 18 T09S R22E 2524 FSL 1256 FWL

BHL Sec 18 T09S R22E 2602 FSL 1821 FWL

43-047-39825 NBU 922-18M3S Sec 18 T09S R22E 1688 FSL 0334 FWL

BHL Sec 18 T09S R22E 0203 FSL 0571 FWL

43-047-39826 NBU 922-18L3S Sec 18 T09S R22E 1689 FSL 0274 FWL

BHL Sec 18 T09S R22E 1390 FSL 0214 FWL

43-047-39827 NBU 922-18L2CS Sec 18 T09S R22E 1687 FSL 0344 FWL

BHL Sec 18 T09S R22E 1994 FSL 0262 FWL

43-047-39828	NBU			R22E :				
43-047-39829	NBU			R22E (FEL FEL
43-047-39830	NBU			R22E (FEL FEL
43-047-39831	NBU			R22E :				FEL FWL
43-047-39832	NBU			R22E R22E	1407 0165			
43-047-39833	NBU			R22E R22E	1413 0465			
43-047-39834	NBU			R22E R22E	1419 0687			
43-047-39835	NBU			R22E R22E	1430 1046			
43-047-39836	NBU			R22E R22E			0362 1878	-
43-047-39837	NBU			R22E R22E	1870 1529			
43-047-39838	NBU			R22E R22E	1892 1724			
43-047-39839	NBU			R22E R22E		_		
43-047-39840	NBU			R22E R22E				
43-047-39841	NBU			R22E R22E				
43-047-39842	NBU			R22E R22E				
43-047-39843	NBU			R22E R22E				

43-047-39844 NBU 922-18I3S Sec 18 T09S R022E 1442 FSL 2580 FEL BHL Sec 18 T09S R022E 1346 FSL 0726 FEL

43-047-39845 NBU 922-18C4CS Sec 18 T09S R22E 1881 FNL 0370 FWL BHL Sec 18 T09S R22E 1075 FNL 1849 FWL

43-047-39846 NBU 922-18F1BS Sec 18 T09S R22E 1886 FNL 0379 FWL BHL Sec 18 T09S R22E 1375 FNL 1868 FWL

43-047-39847 NBU 922-18N2CS Sec 18 T09S R22E 1390 FSL 2220 FWL BHL Sec 18 T09S R22E 0775 FSL 1462 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:11-30-07





MICHAEL R. STYLER Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

December 3, 2007

Kerr McKee Oil and Gas Onshore LP 1368 South 1200 East Vernal, UT 84078

Re:

NBU 922-18K1BS Well, Surface Location 2524' FSL, 1256' FWL, NE SW, Sec. 18, T. 9 South, R. 22 East, Bottom Location 2602' FSL, 1821' FWL, NE SW, Sec. 18,

T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39824.

Sincerely,

Gil Hunt

Associate Director

Sight

pab Enclosures

cc:

Uintah County Assessor

Bureau of Land Management, Vernal Office



Operator:	Kerr McKee Oil and Gas Onshore LP				
Well Name & Number	NBU 922-18K1BS				
API Number:	43-047-39824				
Lease:	UTU-0359				
Surface Location: NE SW	Sec. 18	T. <u>9 South</u>	R. 22 East		
Bottom Location: <u>NE SW</u>	Sec. 18	T. 9 South	R. 22 East		

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 6 In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

RECEIVED

2007 NOV 19 AM IO: 25

NOV - 7 2007

FORM APPROVED

5. Lease Serial No

UTU-0359

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

7. If Unit or CA Agreement, Name and No

UNIT #8910089	A00
---------------	-----

8. Lease Name and Well No.

NBU 922-18K1BS

2. Name of Operator API Well No KERR MCGEE OIL AND GAS ONSHORE LP

BUREAU OF LAND MANAGEMENT BUREAU OF

REENTER

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code) (435) 781-7024

Single Zone

10. Field and Pool, or Exploratory NATURAL BUTTES

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

11. Sec., T., R., M., or Blk, and Survey or Area

NE/SW 2524'FSL, 1256'FWL

At proposed prod. Zone NE/SW 2602'FSL, 1821'FWL

Gas Well

SEC. 18, T9S, R22E 12. County or Parish

13. State

14. Distance in miles and direction from nearest town or post office* 27.95 +/- MILES FROM OURAY, UTAH

16. No. of Acres in lease

REFER TO

TOPO C

UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL OR REENTER

Other

17. Spacing Unit dedicated to this well

Multiple Zone

UTAH

location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1256' Distance from proposed location* to nearest well, drilling, completed,

Oil Well

162.39 40.00 19. Proposed Depth

20. BLM/BIA Bond No. on file

RLB0005239

applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4899'GL

22. Approximate date work will start* **UPON APPROVAL**

9889'

UINTAH

23. Estimated duration TO BE DETERMINED

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.

Form 3160-3

(August 1999)

la. Type of Work: X

b. Type of Well:

Distance from proposed*

- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

ands & Mineral Resources

Name (Printed/Typed) ^ISHEILA UPCHEGO Date 11/16/2007

SENIOR LAND ADMIN SPECIALIST

Approved by (Sig Start Field Manager Title

Name (Printed/Typed)

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*(Instructions on reverse)

NOTICE OF APPROVAL

RECEIVED SEP 1 6 2008

DIV. OF OIL, GAS & MINING

A3800 JIM 80



NRS/Enviro Scientist:

NRS/Enviro Scientist:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL, UT 84078

(435) 781-4400



(435) 828-4029

(435) 828-3545

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr-McGee Oil & Gas Onshore, LP	Location:	NESW, Sec. 18, T9S, R22E (S) NESW, Sec. 18, T9S,R22E (B)
*** ** **	NIDIT OAA 101/1DC	T NT	TIPPTI 0250

Well No: NBU 922-18K1BS Lease No: UTU-0359 API No: 43-047-39824 Agreement: **Natural Buttes Unit** Office Phone Number **Cell Phone Number** Title Name (435) 781-4490 (435) 828-4470 Petroleum Engineer: Matt Baker (435) 781-4432 (435) 828-7875 Petroleum Engineer: Michael Lee Petroleum Engineer: James Ashley (435) 781-4470 (435) 828-7874 (435) 828-7368 (435) 781-4430 Petroleum Engineer: Rvan Angus Jamie Sparger (435) 781-4502 (435) 828-3913 Supervisory Petroleum Technician: Supervisory NRS: Karl Wright (435) 781-4484 (435) 828-7381 Holly Villa (435) 781-4404 (435) 828-3544 NRS/Enviro Scientist: (435) 781-3412 NRS/Enviro Scientist: James Hereford (435) 781-4441 (435) 828-7481 NRS/Enviro Scientist: Chuck Macdonald Dan Emmett (435) 781-3414 NRS/Enviro Scientist: Paul Percival (435) 781-4493 NRS/Enviro Scientist: Michael Cutler (435) 781-3401 (435) 828-3546 NRS/Enviro Scientist: Anna Figueroa (435) 781-3407 (435) 828-3548 NRS/Enviro Scientist: NRS/Enviro Scientist: (435) 828-3547 Verlyn Pindell (435) 781-3402

Fax: (435) 781-3420

(435) 781-4447

(435) 781-3405

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

Darren Williams

Nathan Packer

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in
		writing 48 hours in advance of any construction activity. The
		Ute Tribal office is open Monday through Thursday.
Construction Completion	_	Upon completion of the pertinent APD/ROW construction,
•		notify the Ute Tribe Energy & Minerals Dept. for a Tribal
		Technician to verify the Affidavit of Completion.
Spud Notice	-	Twenty-Four (24) hours prior to spudding the well.
(Notify Petroleum Engineer)		
Casing String & Cementing	-	Twenty-Four (24) hours prior to running casing and cementing
(Notify Supv. Petroleum Tech.)		all casing strings.
BOP & Related Equipment Tests	-	Twenty-Four (24) hours prior to initiating pressure tests.
(Notify Supv. Petroleum Tech.)		
First Production Notice	-	Within Five (5) business days after new well begins or
(Notify Petroleum Engineer)		production resumes after well has been off production for more
		than ninety (90) days.

COAs: Page 2 of 8 Well: NBU 922-18K1BS

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

Surface COAs:

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

Additional Stipulations:

- Paint equipment Carlsbad Canyon.
- Contrary to paleo report the moving of paleo effects is not authorized, per Tribal C.P.O.

General Conditions of Approval

- A <u>30'</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

COAs: Page 3 of 8 Well: NBU 922-18K1BS

• Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined
 to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

COAs: Page 4 of 8 Well: NBU 922-18K1BS

DOWNHOLE CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- 1. A mist system is approved in lieu of deduster equipment. All other equipment for air/gas drilling shall meet specifications in Onshore Order #2, III.Requirements, E. Special Drilling Operations.
- 2. A formation integrity test shall be performed at the surface casing shoe before drilling more than twenty feet.
- 3. Logging program: Gamma Ray shall be run from TD to surface.
- 4. The conductor pipe shall be set and cemented in a competent formation.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

COAs: Page 5 of 8 Well: NBU 922-18K1BS

Cement baskets shall not be run on surface casing.

• The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office
 on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is
 completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

COAs: Page 6 of 8 Well: NBU 922-18K1BS

OPERATING REQUIREMENT REMINDERS:

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - o Well location (1/41/4, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - O Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

COAs: Page 7 of 8 Well: NBU 922-18K1BS

• Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

COAs: Page 8 of 8 Well: NBU 922-18K1BS

• Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Cor	mpany: I	KERR-McGEE O)IL & (GAS ONSHO	RE, L.P.	_
Well Name	·	NBU 922-	18K1B	S		
Api No:	43-047-398	24		_Lease Type:	FEDERAL	
Section 18	Township_	09S Range_	22E	County	UINTAH	_
Drilling Cor	ntractor	PETE MARTI	N DRL	.GRI	G# <u>BUCKET</u>	
SPUDDE		10/31/08				
	Time		,			
	How	DRY				
Drilling will Commence:						
Reported by		LEW WE	LDON			
Telephone #		(435) 828-	7035			
Date	11/03/08	Signed	CHD			

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

1368 SOUTH 1200 EAST

city VERNAL

zip 84078 state UT

Phone Number: (435) 781-7024

Woll 4

API Number	Well	Name	00	Sec	Twp	Rng	County
4304739823	NBU 922-18E3CS		NESW	18	98	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	\$	pud Dai	le .		lity Assignment Effective Date
В	99999	3900		11/1/200	8	11	1/10/08
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 11/1/2008 AT 1400 HRS. $\mathcal{P}_{AM} = 5 (WMU)$							

Well 2

AP Number	Well	Name	QQ	Sec	Twp	Rng		County
4304739824	NBU 922-18K1BS		NESW	18	98	22E	1	HATMIL
Action Gode	Gurrent Entity Number	New Entity Number	S	oud Dat	e		ıtity Ass Effectiv	signment e Date
В	99999	3900	10	0/31/200)8	/1	10	108

Well 3

AP Number	Well	Name	e(e)	Sec	Twp	Ring	Gouldy
4304739805	NBU 922-18F4BS		NESW	18	98	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	3	pud Dal	e		ity Assignment Hective Date
В	99999	2900	10/31/2008		11,	10/08	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 10/31/2008 AT 1330 HRS. BHL = SENW							

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- Re-assign well from one existing entity to a new entity
- Other (Explain in 'comments' section)

SHEILA UPCHEGO

Title

Name (Please Print)

REGULATORY ANALYST

/11/3/2008 Date

(5/2000)

RECEIVED

NOV 03 2008

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM A	PROVED
OMB No.	1004-0135
Expires Inove	mber 30, 2000

5. Lease Serial No.

	U-0358			
6.	If Indian,	Allottee or	Tribe	Name

TDI	RAI	91	IDE	ACE	

7. If Onit of CA/Agreement, Name and/of No.
891008900A
8. Well Name and No.
NBU 922-18K1BS
9. API Well No.

SUBMIT IN TRIPLICATE - Other	891008900A			
 Type of Well Oil Well Sas Well Other Name of Operator 		8. Well Name and No. NBU 922-18K1BS		
KERR-McGEE OIL & GAS ONSHORE LP	lot 51 32 6 1 1 11	9. API Well No. 4304739824		
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 8407	3b. Phone No. (include area code) (435) 781-7024	10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Survey Desc	cription)	NATURAL BUTTES		
2524' FSL, 1256' FWL		11. County or Parish, State		
NE/SW, SEC.18, T9S-R22E		UINTAH COUNTY, UTAH		
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, F	REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent ☐ Acidize ☐ Alter Casing	Deepen Productio	on (Start/Resume) Water Shut-Off ion Well Integrity		
Subsequent Report Casing Repair				
Change Plans Final Abandonment Notice Convert to Init	=	rily Abandon sposal		

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 10/31/2008 AT 1330 HRS.

14. I hereby certify that the foregoing is true and corre	ect				
Name (Printed/Typed)	Title				
SHE L A UPCHEGO	REC	BULATORY AN	NALYST		
Signatura Ma Momen	MO WC Date November 3, 2008				
THIS SPACE FOR FEDERAL OR STATE USE					
Approved by		Title	Date		
Conditions of approval, if any, are attached. Approval of the certify that the applicant holds legal or equitable title to the which would entitle the applicant to conduct operations the	ose rights in the subject lease reon.				
Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.					

(Instructions on reverse)

RECEIVED NOV 0 4 2008

^{13.} Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No. UTU-0359

6. If Indian, Allottee or Tribe Name

abandoned well.	TRIBAL SURFACE	TRIBAL SURFACE		
SUBMI	T IN TRIPLICATE Other instructions	on page 2.		ement, Name and/or No.
1. Type of Well	UNIT #891008900	4		
Oil Well Gas W	8. Well Name and No NBU 922-18K1BS),		
2. Name of Operator KERR McGEE OIL & GAS ONSHO	9. API Well No. 4304739824			
3a. Address 1368 SOUTH 1200 EAST VERNAL, UTAH 840	78	o. (include area code)	10. Field and Pool or NATURAL BUTTES	
A Location of Wall (Factors Co. T.	435.781.702	<u></u>		•
4. Location of Well (Footage, Sec., T., SURFACE HOLE: NE/SW SEC, 18, T9S, R22E BOTTOM HOLE: NE/SW SEC. 18, T9S, R22E	2602'FSL, 1821'FWL		11. Country or Parish UINTAH COUNTY,	
12. CHEC	K THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	ICE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION		TYPE OF AC	CTION	
Notice of Intent	Acidize Dee	·	oduction (Start/Resume)	Water Shut-Off
		cture Treat Re	clamation	Well Integrity
Subsequent Report	= : =		complete	Other SET SURFACE
			mporarily Abandon	CSG
Final Abandonment Notice	Convert to Injection Plugoration: Clearly state all pertinent details,		ater Disposal	
LEAD CMT W/300 SX PREM LITE I 1.15 YIELD. PUMPED 211 BBL DIS CMT TO SURFACE. CMT DROPPE PREM CLASS G @15.8 PPG 1.15 \ RAN 80' OF 3/4" PIPE PUMPED 20. BACK TO SURFACE FELL 2' AND S FLUSH FLOWLINE BLOW DOWN A L/D MOUSE HOLE UNBOLT AND N MUD LINES. WORT.	. DRILLED 12 1/4" SURFACE HOLE 1 I @11.0 PPG 3.38 YIELD. TAILED CM PLACEMENT BUMPED PLUG WITH 6 D OUT OF SIGHT. RAN 260' OF 3/4" I YIELD. AND GOT BACK CMT TO SUR 5 BBL CMT W/100 SX PREM CLASS STAYED THERE. WOC, FELL BACK 2 ALL MUD LINES RD CMT EQUIPMEN' IIPPLE DOWN DRILLING NIPPLE DUI	T W/200 SX PREM CLAS 600 PSI FLOAT EQUIPME PIPE CMT PUMPED 20.5 FACE. WOC, FELL BACK G @15.8 PPG 1.15 YIELI ' BELOW FLOWLINE AN I. L/D LANDING JT AND	S G @15.8 PPG NT HELD. GOT 8 BBI BBL. CMT W/100 SX OUT OF SIGHT. D. GOT CMT D STAYED THERE. BAILS AND ELEVATO	_OF
 I hereby certify that the foregoing is tr Name (Printed/Typed) SHEILA UPCHEGO 	ue and correct.	Title REGULATORY A	NALYST	
Signature MMM	Millego	Date 01/05/2009		
	THIS SEACE FOR FEDE	ERAL OR STATE OF	FICE USE	
Approved by				
	Approval of this notice does not warrant or the to those rights in the subject lease which w			Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any depart representation and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any depart representation.

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

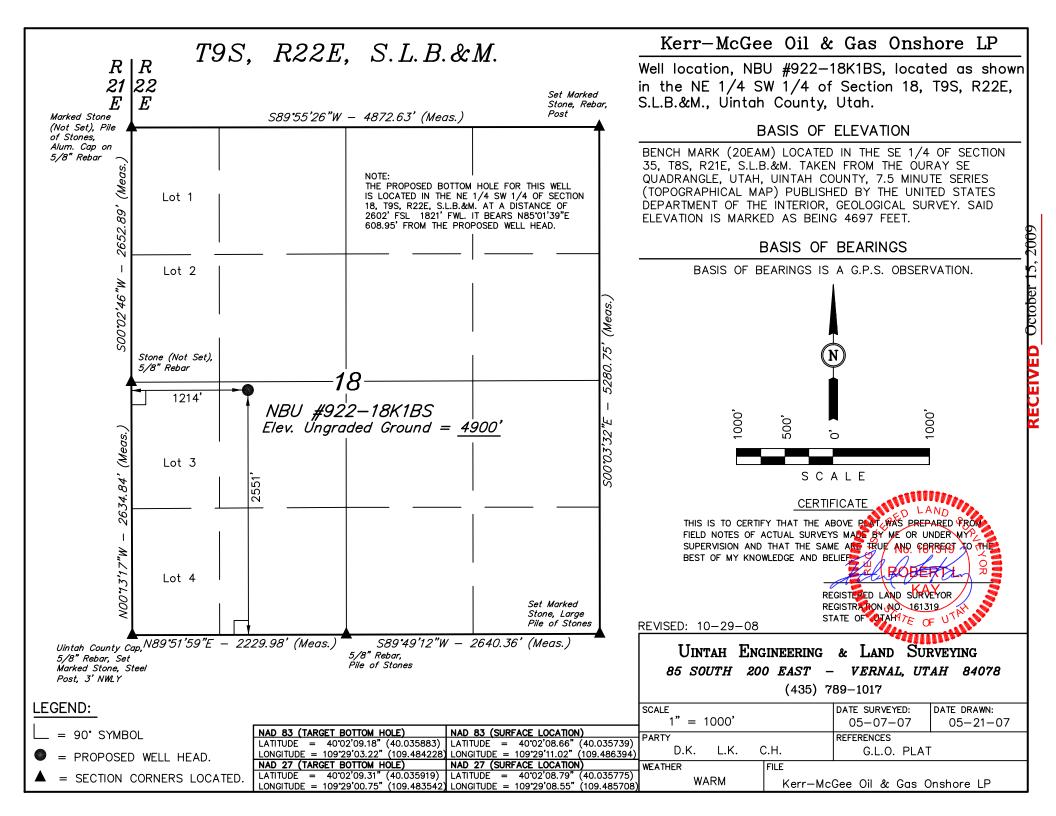
Lease Serial	No
UTU-0359	

Do not use this form for proposals to drill or	6. If Indian, Allottee or Tribe Name				
abandoned well. Use Form 3160-3 (APD) for si	TRIBAL SURFACE	TRIBAL SURFACE			
SUBMIT IN TRIPLICATE - Other instructions	7. If Unit of CA/Agreen UNIT #891008900A	7. If Unit of CA/Agreement, Name and/or No.			
I. Type of Well		8. Well Name and No.			
Oil Well Gas Well Other	NBU 922-18K1BS				
2. Name of Operator KERR McGEE OIL & GAS ONSHORE LP		9. API Well No. 4304739824			
1368 SOUTH 1200 EAST VERNAL, UTAH 84078 435.781.702	o. (include area code) 24	10. Field and Pool or Ex NATURAL BUTTES	xploratory Area		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SURFACE HOLE: NE/SW SEC, 18, T9S, R22E 2524FSL, 1256FWL BOTTOM HOLE: NE/SW SEC. 18, T9S, R22E 2602FSL, 1821FWL		11. Country or Parish, S UINTAH COUNTY, U			
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	CE, REPORT OR OTHE	R DATĄ		
TYPE OF SUBMISSION	TYPE OF AC	TION			
	cture Treat Rec	duction (Start/Resume) lamation	Water Shut-Off Well Integrity		
V Subsequent Report		omplete	Other FINAL DRILLING OPERATIONS		
		nporarily Abandon ter Disposal	OPERATIONS		
following completion of the involved operations. If the operation results in a testing has been completed. Final Abandonment Notices must be filed only at determined that the site is ready for final inspection.) FINISHED DRILLING FROM 2840' TO 9880' ON 02/06/2009. RAN 4 1/2" LEAD CMT W/442 SX PREM LITE II @11.1 PPG 3.25 YIELD. TAILED CM PPG 1.31 YIELD. WASH PUMP & LINES DROP TOP PLUG DISPLACE W BUMP PLUG W/3450 PSI 500 OVER DIFF PRESS. FLOATS OK LOST RE NO CMT TO SURFACE L/D LANDING JT & SETTING TOOL SET PACKO DOWN BOPE CLEAN MUD TANKS. RELEASED H&P 298 RIG ON 02/08/2009 AT 0830 HRS.	iter all requirements, including 11.6# I-80 PRODUCTION 1T W/1290 SX 50/50 POZ (1/152.8 BBLS FRESH WAT ETURNS START OF DISPI	g reclamation, have been o CSG. @14.3 ER .ACEMENT	completed and the operator has		
14. I hereby certify that the foregoing is true and correct.	<u></u>				
Name (Printed/Typed) SHEILA UPCHEGO	Title REGULATORY AN	IAI VOT			
Signature Mull Mullim	Date 02/09/2009	nc101			
THIS SPACE FOR FEDE		FICE USE			
Approved by					
Conditions of approval, if any, are attached. Approval of this notice does not warrant or that the applicant holds legal or equitable title to those rights in the subject lease which we entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any part of the section 1212.	ould Office	Da o make to any deba and the			

FEB 11 2009

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

	STATE OF UTAL		FORM 9		
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	5	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359		
SUNDF	RY NOTICES AND REPORTS ON	I WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for proposition—hole depth, reenter plu DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-18K1BS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	9. API NUMBER: 43047398240000				
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2524 FSL 1256 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NESW Section: 18	P, RANGE, MERIDIAN: Township: 09.0S Range: 22.0E Meridian: S		STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICATE NA	ATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
THE OPERATOR W CALLS FOR THIS Y ADJUSTMENTS DUI LOCATION CHANGI FWL. PLEASE SEE TH	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF CHANGE OF COMMENT OF COMMEN	SURFACE FOOTAGE JNDERWENT MINOR TONS. THE SURFACE TO: 2551 FSL & 1214 PLAT FOR ADDITIONAL	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: FOOTAGE UPDATE Diumes, etc. Approved by the Utah Division of Oil, Gas and Mining Ate: October 19, 2009		
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE			
Andy Lytle SIGNATURE	720 929-6100	Regulatory Analyst DATE			
N/A		10/15/2009			



	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	NG	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359
SUNDE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for proposition-hole depth, reenter plu DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-18K1BS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047398240000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	itreet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2551 FSL 1214 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NESW Section: 18	IP, RANGE, MERIDIAN: Township: 09.0S Range: 22.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE ☐	ALTER CASING	☐ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Bute or opuu.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
✓ DRILLING REPORT	☐ TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL
Report Date: 11/1/2009	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
11/1/2009	WILDCAT WELL DETERMINATION	OTHER	OTHER:
THE SUBJECT WELL V	OMPLETED OPERATIONS. Clearly show all pertin VAS PLACED ON PRODUCTION (REPORTED THE ATTACHED CHRONOLO)	ON 11/01/2009 AT 10:30 DGICAL WELL HISTORY. A U	
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 11/3/2009	

Operation Summary Report

Well: NBU 922-18K1BS (RED WELL)		Spud Date: 12/30/2008		
Project: UTAH-UINTAH	Site: N	BU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298	
Event: DRILLING	Start D	Pate: 12/8/2008	End Date: 2/8/2009	
Active Datum: RKB @4 925 00ft (above M	ean Sea	LIMI: NE/SW/0/9/S/	22/F/18/0/0/6/PM/S/2 551 99/W/0/1 214 00/0/0	

						ate: 12/8/2008 End Date: 2/8/2009							
Active Datum: RKB @4,925.00ft (above Mean Sea Level)						UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0							
Date		Time int-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation				
12/8/2008		-											
12/29/2008	2:00	- 4:00	2.00	DRLSUR	01	С	S		Prep to skid rig, rig up 2" steam hoses.				
	4:00	- 6:00	2.00	DRLSUR	01	С	Ρ		Skid rig to NBU 922-18K1BS				
		- 14:30	8.50	DRLSUR	01	С	P		Heat 16" conductor and 20" conductor, install new "O" ring seal. Rig up both sections of conductor. Rig up flow line to conductor and preacher stand manifold. Install blank flange to preacher stand manifold. Hook up mud line. Install turn buckles and center conductor. Install fill up line and flow line manifold. Install 2" jet line on low line manifold. Transfered mud to pit and circulate over shakers to clean out shale and LCM. Install pipe racks and unload casing.				
		- 21:30	7.00	DRLSUR	01	C	S		It was noticed that the landing sleeve for the DTO well head was not installed. Pickup conductor, install landing sleeve and tack with welder. In the process of doing this the new "O" ring seal was broken, had to wait on new seal. Install conductor, flow line, turn buckles and fill up line. It took 3 hours after "O" ring showed up to get conductor nippled up				
		- 23:00	1.50	DRLSUR	12	Α .	P		Chage out casing bails for drilling bails				
40/00/0000		- 0:00	1.00	DRLSUR	08	A	S		Inspect saver sub, change out dies and bolts in grabber. Not showed as rig repair on IADC				
12/30/2008		- 0:30	0.50	DRLSUR	80	A	S		Inspect savor sub, change dies and bolts in grabber				
		- 3:30	3.00	DRLSUR	06	Α _	P		Pickup stand with mud motor, break and change out mud motors				
	3:30	- 4:00	0.50	DRLSUR	01	В	P		Pressure test mud line and pump#2 to 3500 psi, pop-off leaking on pump #1				
	4:00	- 4:30	0.50	DRLSUR	08	B	S		Change out pop-off on #1 pump				
		- 5:00	0.50	DRLSUR	01	В	Р		Pressure test both pumps to 3500 psi for 10 minutes. Blow down mud line				
		- 6:00	1.00	DRLSUR	80	Α	S		Change out winch line on driller side				
		- 7:00	1.00	DRLSUR	01	В	S		Prepare to spud. Organized rig floor. Gather slips, collar clamp, thaw and clean tool joint threads. Finish changing out winch line on driller side. Pickup new bit. NOTE THIS SHOULD BE DOWN TIME. IF THEY HAD THERE HEATERS RUNNING AND SUB TARPED IN THIS WOULD NOT HAVE BEEN A PROBLEM				
		- 8:30	1.50	DRLSUR	06	Α	Р		Make up bit, scribe high side of motor and pickup MWD tools				
•.		- 9:00	0.50	DRLSUR	08	Α	S		Tagged bottom at 111'. break circulation, no returns, flow line frozen				
		- 10:30	1.50	DRLSUR	80	В	S		Thaw out flow line				
		- 14:30	4.00	DRLSUR	02	D	P		Drill 111' - 284', WOB 2 - 10k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 1075/875, Torque On/Off Bottom 3/0, Mud Wt 9.9, Visc 37, Footage 173', FPH 43.25				
	14:30	- 15:00	0.50	DRLSUR	07	Α	Р		Rig service				
	15:00	- 15:30	0.50	DRLSUR	08	Α	S		Repair ST-80 change out clamp/unclamp cable				

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

 Event: DRILLING
 Start Date: 12/8/2008
 End Date: 2/8/2009

Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0

Active Datum: l Level)	RKB @4,925.00ft (above Mea	n Sea	UWI: N	IE/SW/0	/9/S/22/E	:/18/0/0/6/PM/S	2,551.99/W/0/1,214.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
	15:30 - 17:00	1.50	DRLSUR	02	D	Р		Drill 284' - 374', WOB 2 - 10k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 1160/1075, Torque On/Off Bottom 3/0, Mud Wt 9.9, Visc 37, Footage 90', FPH 60		
	17:00 - 17:30	0.50	DRLSUR	23		S		Safety shut down, inspect top drive for missing bolts, found 2 bolts with out keeper pins on bail ears		
	17:30 - 18:00	0.50	DRLSUR	80	Α	S		Repair ST-80 adjusted cables for forward backward controls		
	18:00 - 0:00	6.00	DRLSUR	02	D	Р		Drill 284' - 1000', WOB 10-25k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 9/3, Mud Wt 9.8, Visc 35, Footage 716', FPH 119.3		
								Slide Parameters (111'-131') (286'-311') (374'-398') (567'-582') (747'-760') (834'-859') (1023'-1040') WOB 18k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 0, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 0/0, Mud Wt 9.8, Visc 35,		
12/31/2008	0:00 - 9:30	9.50	DRLSUR	02	D	Р		DRILL F/1000'-1871, WOB 10-25k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 9/3, Mud Wt 9.8, Visc 35, Footage 871', FPH 91.68		
	9:30 - 12:00	2.50	DRLSUR	22	G	X		LOST RETURNS @ 1869' BUILD VOL. PUMP 3 50 BBLS HIGH VIS AND 10% LCM SWEEPS. LOST OVER 300 BBLS. WENT BACK TO DRILLING WITH LOWER SPM 72/72 FOR 1 HR. AND REGAINED FULL RETURNS.		
	12:00 - 0:00	12.00	DRLSUR	02	D	Р		DRILL F/1871-2790, WOB 10-25k, GPM 738, PUMP #1 SPM 82, PUMP #2 SPM 82, RPM 50-55, MOTOR RPM 112, SPP ON/OFF BOTTOM 2200/1790, TORQUE ON/OFF BTM 9/3, MUD WT 9.1, VIS 34, FTG 919', FPH 76.5 BYPASS SHAKERS FOR LCM, DUMP SANDTRAP EVERY HR.		
1/1/2009	0:00 - 1:00	1.00	DRLSUR	02	D	Р		DRILL F/2790-2840, WOB 10-25k, GPM 738, PUMP #1 SPM 82, PUMP #2 SPM 82, RPM 50-55, MOTOR RPM 112, SPP ON/OFF BOTTOM 2200/1790, TORQUE ON/OFF BTM 9/3, MUD WT 9.1, VIS 34, FTG 50', FPH 50.0 BYPASS SHAKERS FOR LCM, DUMP SANDTRAP EVERY HR.		
	1:00 - 2:00	1.00	DRLSUR	05	С	Р		CIRC AND PUMP HIGH VIS AND LCM SWEEP, BUILD AND PUMP SLUG.		
	2:00 - 9:00	7.00	DRLSUR	06	Α	Р		TRIP OUT, L'D DIRECTIONAL TOOLS. THAW OUT RIG FLOOR WHILE TRIPPING TO USE EQUIPMENT TO TRIPSTEAM LINES, MUD LINE AND LINES FREEZING WHILE FILLING HOLE.		
	9:00 - 10:30	1.50	DRLSUR	06	Α	Р		PICK UP BIT, BIT SUB AND TRIP IN WITH 2-8" DC's NO TIGHT SPOTS. 14' OF FILL ON BTM.		
	10:30 - 13:30	3.00	DRLSUR	22	G	P		LOST CIRC 15 MINS AFTER PUMPING, BUILD MUD AND PUMP LCM SWEEPS. LOST 300 BBLS OF MUD TO WELL.		
	13:30 - 17:00	3.50	DRLSUR	06	D	P		TRIP OUT L/D 2-8" DC'S HELD SAFETY WITH L/D TRUCK TO L/D DC'S.		
	17:00 - 19:30	2.50	DRLSUR	12	A	Р		CHANGE OUT BAILS AND ELEVATORS AND RIG UP CASING EQUIPMENT.		
	19:30 - 20:00 20:00 - 0:00	0.50	DRLSUR	07 12	A C	P P		CLEAN RIG FLOOR OF ICE.		
1/2/2009	0:00 - 0:00	4.00 2.00	DRLSUR CSG	12 12	C	P		RUN 64 JTS. OF 9 5/8, 40#, J-55 LTC RUN 64 JTS. OF 9 5/8, 40#, J-55 LTC LAND AND		
1/2/2005	3.00 - 2.00	2.00		12			····	SET CASING AT 2820'		

US ROCKIES REGION

Operation Summary Report

Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: H&P 298/298, H&P 298/298

Event: DRILL	NG		Start Da	te: 12/8/	2008			End Date: 2/8/2009	
	RKB @4,925.00ft	(above Mean	Sea	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0					
Level) Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4 - 1 - 1 - 1 - 1 - 1	2:00 - 6:30	4.50	CSG	05	D	X	(ii)	CIRC CASING DRILLING NIPPLE LEAKING FROM ORING SEAL. WORK ON CELLAR PUMPS TO SUCK OUT CELLAR PREPARE TO CMT. CASING	
	6:30 - 8:30	2.00	CSG	12	E	Р		HELD SAFETY MTG WITH BJ CEMENT AND PUMPED LEAD 180 BBLS, 300 SKS OF PREMIUM LITE 11.0#, 3.38 YIELDTAIL 42 BBLS 200 SX, GLASS G, 15.8#, 1.15 YIELDPUMPED 211 BBL DISPLACEMENT, BUMPED PLUG WITH 600 PSI FLOAT EQUIPMENT HELD. GOT 8 BBLS OF CMT TO SURFACE CMT DROPPED OUT OF SIGHT.	
	8:30 - 11:00	2.50	CSG	12	E	Р		RAN 260' OF 3/4" PIPE FOR TOP JOB. PUMPED 20.5 BBL, 100SKS CLASS G 15.8# AND GOT CMT BACK TO SURFACE.	
	11:00 - 13:00	2.00	CSG	13	Α	P		WAIT ON CMT FELL BACK OUT OF SIGHT.	
	13:00 - 14:30	1.50	CSG	12	E	Р		RAN 80' OF 3/4" PIPE AND PUMPED 20.5 BBL, 100SKS CLASS G 15.8# AND GOT CMT BACK TO SURFACE. FELL 2' AND STAYED THERE.	
	14:30 - 15:00	0.50	CSG	13	Α	Р		WAIT ON CMT FELL BACK 2' BELOW FLOWLINE AND STAYED THERE.	
	15:00 - 16:00	1.00	CSG	12	E	Р		FLUSH FLOWLINE, BLOW DOWN ALL MUD LINES. RIG DOWN CMT EQUIPMENT.	
	16:00 - 20:00	4.00	CSG	14	Α	Р		L/D LANDING JT. AND BAILS AND ELEVATORS, L/D MOUSE HOLE. UNBOLT AND NIPPLE DOWN DRILLING NIPPLE.	
	20:00 - 0:00	4.00	CSG	01	Α	Р		DUMP AND CLEAN MUD PITS, PUMPS AND ALL MUD LINES. RELEASED RIG AT 23:59 ON 1/2/09	
1/24/2009	18:00 - 21:00	3.00	DRLPRO	01	С	Р		PREPARE RIG FOR SKIDDING, SKID RIG TO 18K1BS & CENTER UP, RIG UP EQUIPMENT AFTER SKID-STAIRS, CATWALK, V-DOOR	
	21:00 - 0:00	3.00	DRLPRO	08	В	P		6 MONTH MAINTENANCE ON RAMS, MP MOTORS, TOP DRIVE, ELECTRICAL SYSTEM, QTRLY INSP ON DRAWWORKS, MONTHLY INSPECTION ON MOTORS	
1/25/2009	0:00 - 7:30	7.50	DRLPRO	14	Α	P		NIPPLE UP BOPE, INSTALL NEW CHOKE LINE EXTENSION FROM CHOKE HOUSE, INSTALL DRIP PANS, TURNBUCKLES, FUNCTION TEST BOPS	
	7:30 - 12:00	4.50	DRLPRO	15	Α	Р		TEST BOP'S=ANN 250-5 MIN, 2500-10, TEST RAMS, CHOKE LINE, CHOKE MANIFOLD, IBOP, FLOOR VALVE, TOP DRIVE 250/5, 5000/10 MIN	
	12:00 - 15:30	3.50	DRLPRO	80	В	Z		CHANGE OUT RAISING CYLINDER ON GRABBER OF TOP DRIVE.	
	15:30 - 16:00	0.50	DRLPRO	07	Α	Ρ		DAILY RIG SERVICE	
	16:00 - 21:00	5.00	DRLPRO	09	Α	Р		CHANGE OUT DRILLING LINE (COMPLETE) WITH NEW SPOOL OF LINE, SET TWIN STOPS	
	21:00 - 23:00	2.00	DRLPRO	06	Α	Р		M/U BIT #-QD506 W/ 6-12, P/U NEW BENT MUD MOTOR 1.11DEG, ORIENT TOOLS, P/U 1-HWDP TO TEST MUD MOTOR-TD FAILED	
	23:00 - 0:00	1.00	DRLPRO	80	В	Z		TD FAILURE IN CONTROL SYSTEMS, UNABLE TO MAKEUP, TROUBLESHOOT FAILURE	
1/26/2009	0:00 - 15:00	15.00	DRLPRO	80	В	Z		TROUBLE SHOOT TOP DRIVE PROBLEM, CHANGE CABLES, ENCODER CARD, FOUND LOOSE PINS IN ENCORDER PIGTAIL	
	15:00 - 15:30	0.50	DRLPRO	07	Α	Р		SERVICE RIG, CHANGE OIL IN TOP DRIVE	
	15:30 - 18:00	2.50	DRLPRO	06	Α	Р		FUNCTION TEST MUD MOTOR-OK, TRIP IN HOLE TO 1800', INSTALL ROTATING HEAD RUBBER, TRIP IN TO 2769, TAG CEMENT,	
	18:00 - 20:00	2.00	DRLPRO	02	F	Р		DRILL CEMENT, PLUG, FLOAT COLLAR, SHOE,	

11/3/2009 7:32:44AM CEMENT TO 2840

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

 Event: DRILLING
 Start Date: 12/8/2008
 End Date: 2/8/2009

Event: DRILLING			Start Date: 12/8/2008			End Date: 2/8/2009			
Active Datum: Level)	RKB @4,925.00ft ((above Mear	n Sea UWI: NE/SW/0/9			9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
	20:00 - 21:30	1.50	DRLPRO	02	D	P	X. Z	SPUD ACTUAL, DRILL 2840-2881 = 41' = 27.3 FPH TORQUE ON/OFF 4/1.5K, SPP ON/OFF 1250/1175, STRING WT UP/DOWN/ROT, WOB 10, SPM 70,GPM 315, RPM 45, MW 9.6, VIS 30, LCM 0,	
	21:30 - 23:30	2.00	DRLPRO	02	D	Р		SLIDE DRILL 2881-2889 = 8' = 4 FPH, SPP 1100, WOB 18-24, SPM 90,GPM 405, RPM 0, MW 9.4, VIS 33, LCM 0,	
	23:30 - 0:00	0.50	DRLPRO	02	D	Р		ROTARY DRILL 2889-2929 = 40' = 80 FPH, TORQUE ON/OFF 4/1.5K, SPP ON/OFF 1250/1175, STRING WT UP/DOWN/ROT 107/97/105, WOB 10, SPM 70,GPM 315, RPM 45, MW 9.4, VIS 30, LCM 0,	
1/27/2009	0:00 - 0:30	0.50	DRLPRO	02	D	P		DRILL 2889-2945 = 56' = 112 FPH, MW 9.5# 34 VIS, SPM 90, GPM 404, SPP ON/OFF 1250/950, DIFF 200, RPM 45, TORQUE ON/OFF 4/2K,	
	0:30 - 2:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 2945-2951, MW 9.5# 34 VIS, SPM 90, GPM 404, SPP ON/OFF 1250/95	
	2:00 - 3:30	1.50	DRLPRO	02	D	P		ROT DRILL2951-2951 TO WIPE FORMATION, SLIDE 2954-2959 = 5', MW 9.5# VIS 35, SPM 90, GPM 404, SPP 950-1050, WOB 5-??, UNABLE TO SLIDE WITH NORMAL WOB, STRING SLIPS DOWN PUTTING HIGH WOB AND STALLING MOTOR	
	3:30 - 4:30	1.00	DRLPRO	02	D	P		ROT DRILL 2959-3039 = 80' = 80 FPH, MW 9.5# VIS 34, WOB 18-22, SPP ON/OFF 1250/975, DIFF 250, GPM 404, SPM 90, RPM 45, TORQUE ON/OFF 4.2/2.5K,	
	4:30 - 6:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 3039-3052, 13', WOB 20, DIFF PRESS 175, SPP ON/OFF1050/980, SPM 90, GPM 404	
	6:00 - 6:30	0.50	DRLPRO	02	D	Р		DRILL 3052-3071 = 19' MW 9.5#, VIS 35, SPM 90, GPM 404, SPP ON/OFF 1250/950, DIFF 200, RPM 55, TORQUE ON/OFF 6/2K, WOB 18	
	6:30 - 7:30	1.00	DRLPRO	02	D	P		SLIDE DRILL 3071-3081, MW 9.5#, VIS 35, SPM 90, GPM 404, DIFF 120, SPP ON/OFF 1180/1060	
	7:30 - 8:00	0.50	DRLPRO	02	D	Р		ROT DRILL 3081-3134 = 53' = 106 FPH, MW 9.5# VIS 35, SPM 90, GPM 404, SPP ON/OFF 1240/1080, DIFF 250, RPM 55, TORQUE ON/OFF 6/2K, WOB 18	
	8:00 - 9:30	1.50	DRLPRO	02	D	Р		SLIDE DRILL 3134-3139, MW 9.5#, VIS 35, SPP ON/OFF 1150/1030,	
	9:30 - 10:00	0.50	DRLPRO	05	С	Р		CIRCULATE HOLE, BUILD SLUG FOR TRIP	
	10:00 - 12:00	2.00	DRLPRO	06	Α	Р		TRIP OUT WITH BIT #1, HOLE GOOD, PULL ROTATING HEAD RUBBER	
	12:00 - 13:30	1.50	DRLPRO	06	J	Р		L/D MUD MOTOR WITH STABILIZER, L/D IBS,	
	13:30 - 14:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG	
	14:00 - 14:30	0.50	DRLPRO	06	J	Р		P/U DIRECTIONAL MOTOR, M/U DIRECTIONAL TOOLS, ORIENT SAME, M/U BIT #1RR,	
	14:30 - 16:30	2.00	DRLPRO	06	Α	P		TRIP IN HOLE, HOLE GOOD,	
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL 3139-3599 = 460' = 61.3 FPH AVG, MW 9.5#, 36 VIS, SPM 90, GPM 404, SLIDE DRILL 3253-3265, 3316-3331, 3347-3355, 3410-3420, 3442-3450, 3502-3512, 3537-3545, TORQUE ON/OFF 3/1K, SPP ON/OFF 1480/1180, WOB 14-16, SPM 90, GPM 404, ROP 25-50,==ROTARY DRILL TORQUE ON/OFF 7.2/2.5K, SPP ON/OFF 1260-1500/1150-1225, ST WT UP/DOWN/ROT 118/105/108	

118/105/108

11/3/2009 7:32:44AM

US ROCKIES REGION

Operation Summary Report

Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Site: NBU 922-18L PAD Project: UTAH-UINTAH Rig Name No: H&P 298/298, H&P 298/298 **Event: DRILLING** Start Date: 12/8/2008 End Date: 2/8/2009 Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2.551.99/W/0/1.214.00/0/0 Level) Duration Date Time Phase Code Sub P/U MD From Operation Start-End (hr) Code (ft) 0:00 - 16:30 P 1/28/2009 16.50 **DRLPRO** 02 DRILL 3599-4449= 850' = 51.5 AVG ROP, MW 9.5#, D VIS 36, WOB 18-20, SPM 90, SPP ON/OFF 11780/1560, DIFF 280, RPM 45, GPM 404. TORQUE ON/OFF 8/4K, SLIDE 3599-3511, 3631-3639, 3693-3703, 3725-3733, 3788-3802, 3818-3830, 3881-3894, 3913-3928, 3976-3988, 4007-4019, 4071-4081, 4165-4177, 4197-4205, 4260-4275, 4291-4306, 4354-4369==LOST 80 BBL MUD @ 4185, PUMPED LCM PILLS AND STOPPED LOSSES 16:30 - 17:00 0.50 DRLPRO 02 D P **RIG SERVICE** 17:00 - 0:00 7.00 02 D P DRLPRO DRILL 4449-4772 = 323' = 46.1 FPH . MW 9.6#. VIS 38, ROT DRILL WOB 22, RPM 45, SPP ON/OFF 1850/1550, DIFF 250-300, SLIDE 4449-4464, 4607-4627, 4734-4747, WOB 15-25, SPP ON/OFF 1675/1550, DIFF 125, SPM 90, GPM 404, P/U-SO-ROT WT 145-112-131, 1/29/2009 0:00 - 13:30 13.50 DRLPRO 02 D Р DRILL 4772-5395 = 623' = 46.1 FPH, MW 9.8#, VIS 38, SPM 90, SPP 1550-1800, GPM 404, RPM 55, MOTOR RPM 64, TORQUE ON/OFF 6-8/3-4K, ST WT UP/DN/ROT 153-118-129, WOB 18, SLIDE 4828-4845, 4955-4967, TORQUE ON/OFF 8.5/4K, DIFF 250, WOB 22 13:30 - 14:00 0.50 DRLPRO 07 Α Р RIG SERVICE 14:00 - 0:00 10.00 02 D Ρ **DRLPRO** DRILL 5395-5773 = 378' = 37.8 FPH, WOB 22, RPM 55, TORQUE ON/OFF 8000/4000, SPM 90, GPM 404, MOTOR RPM 64, SPP ON/OFF 1950/1750. P/U-S/O-ROT WT 155-124-135, SLIDE 5407-5499, WOB 25, DIFF 175, MW 9.8#, VIS 41, SPM 90, GPM 404, SPP ON/OFF 1840-1610 1/30/2009 0:00 - 6:00 6.00 DRLPRO D Р 02 DRILL 5773-5960 = 187' = 31.2 FPH, MW 9.8#, VIS 6:00 - 7:30 1.50 **DRLPRO** 05 С CIRCULATE B/U PRIOR TO TRIP, BUILD & PUMP **SLUG** 7:30 - 12:30 5.00 DRLPRO 06 Α P TRIP OUT, DRAG ON BOTTOM 8 STDS = +40-80K. POOH, L/D MUD MOTOR, CHANGE BITS 12:30 - 16:30 **DRLPRO** P 4.00 06 M/U NEW Q506 BIT & MOTOR 1.4 BENT SUB, Α ORIENT MWD TOOLS, TRIP IN HOLE, FILL PIPE @ SHOE, TRIP IN TO 5700, HIT BRIDGE, UNABLE TO PASS, CONNECT TOP DRIVE 16:30 - 17:30 1.00 **DRLPRO** Ε Р WASH & REAM F/5700-5960, SPM 80, SPP 2000. 03 RPM 20, TORQUE4000, WOB 0-5, P/U-S/O-ROT183-78-145 17:30 - 0:00 6.50 **DRLPRO** 02 Α Р DRILL 5960-6200, MW 10.0#, VIS 40, WOB 16-18, TORQUE ON/OFF 8/5K, TD RPM 55, MOTOR RPM 64, SPM 90, GPM 404, SPP ON/OFF 2000/1770. DIFF 230, ST WT UP/DN/ROT 168-136-148K, ROP 1/31/2009 0:00 - 12:00 Р 12.00 **DRLPRO** 02 D DRILL 6200-6705 = 505' = 42.1 FPH, MW 10.1#, VIS 43, TD RPM 60, TORQUE ON/OFF 10/4K, MOTOR RPM 72, ST WT P/U-S/O-ROT 173-137-149, WOB 18, ROP 35-70, SPM 100, GPM 450, SPP ON/OFF 2400/2190 12:00 - 12:30 **DRLPRO** 0.50 07 Α RIG SERVICE DRILL 6705-6811 = 106' = 35.3 FPH, MW 10.1#, VIS 12:30 - 15:30 3.00 DRLPRO 02 D Р 43, TD RPM 60, TORQUE ON/OFF 10/4K, MOTOR

11/3/2009 7:32:44AM RPM 72, ST WT P/U-S/O-ROT 176-141-155, WOB 18, ROP 25-40, SPM 100, GPM 450, SPP ON/OFF

2220/1970

US ROCKIES REGION

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

 Event: DRILLING
 Start Date: 12/8/2008
 End Date: 2/8/2009

Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0

Level)		1 =						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 16:30	1.00	DRLPRO	02	D	Р		SLIDE DRILL 6811-6823 = 12', 12 FPH, MW 10.1#, VIS 43, WOB 20-35, DIFF 125, SPM 100, GPM 450, SPP ON/OFF 1970/2200, MM RPM 71, ST WT UP-DN-ROT 176-141-155
	16:30 - 20:00	3.50	DRLPRO	02	D	Р		DRILL 6823-6985 = 162' = 46.3 FPH, MW 10.1#, VIS 49, TD RPM 60, TORQUE ON/OFF 10/7K, MOTOR RPM 72, ST WT P/U-S/O-ROT 176-148-162, WOB 21, ROP 25-40, SPM 100, GPM 450, SPP ON/OFF 2390-2230
	20:00 - 0:00	4.00	DRLPRO	80	В	Z		REPAIR RIG, CHANGE ALL VALVES #1 PUMP, SEATS IN MODS 2 & 3, CHANGE ALL VALVES & SEATS MP #2
2/1/2009	0:00 - 1:30	1.50	DRLPRO	80	В	Z		REPAIR RIG-FINISH CHANGING SEATS & VALVES IN MUD PUMPS
	1:30 - 7:30	6.00	DRLPRO	02	D	P		DRILL 6985-7190 = 205' = 34.2 FPH, MW 10.1# 44 VIS, WOB 22, TORQUE ON/OFF 9-11/8K, SPM 100, GPM 450, SPP ON/OFF 2240/2370, TD RPM 60, MM ROP 72, ST WT UP-DN-ROT 180-145-160, ROP 40-70
	7:30 - 9:30	2.00	DRLPRO	02	D	Р		SLIDE DRILL 7190-7208 = 18', MW 10.2@, 43 VIS 43, WOB 21, TORQUE 8/3K, SPM 100, GPM 450, MM RPM 72, SPP ON-OFF 2150-2000, ST WT UP-DN-ROT 180-145-160, ROP 9
	9:30 - 11:30	2.00	DRLPRO	02	D	Р		DRILL 7208-7285 = 77' = 38.5 FPH, MW 10.2#, VIS 44, TORQUE ON/OFF 11/8K, SPM 100, GPM 450, SPP ON/OFF 2400/2200, TD RPM 50-60, MM ROP 72, ST WT UP-DN-ROT 180-145-160, ROP 40-70
	11:30 - 12:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG, CHANGE OUT 5 SHAKER SCREENS
	12:00 - 0:00	12.00	DRLPRO	02	D	P		DRILL 7285-7654 = 369' = 30.75 FPH, MW 10.4#, 47 VIS, WOB 20-22, TORQUE ON/OFF 9-12/8K, TD RPM 40-60, MM RPM 72, SPM 100, GPM 450, SPP ON/OFF 2550/2240, STR WT UP-DN-ROT 185-152-166, ROP 20-60
2/2/2009	0:00 - 16:30	16.50	DRLPRO	02	D	P		DRILL 7654-8136 = 482' = 29.2 FPH, MW 10.5, 43 VIS, WOB 20, TORQUE ON/OFF 12/8, SPM 95, GPM 426, SPP ON/OFF 2180/2020, TD RPM 40-60, MM RPM 68, ROP 30-50==SLIDE 7757-7765, WOB 17, P/U-S/O 184-151-166, SPP ON/OFF 2200/2150
	16:30 - 17:00	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D	Р		DRILL 8136-8325 = 189' = 37.8 FPH, MW 10.5#, VIS 41, WOB 18-20, TORQUE ON/OFF 13/9, SPM 95, GPM 426, SPP ON/OFF 2340/2210, RD RPM 40-60, MM RPM 68, ST WT P/U-S/O-ROT 198-165-180
2/3/2009	0:00 - 10:30	10.50	DRLPRO	02	D	Р		DRILL 8385- 8695 = 310' = 29.5 FPH, WOB 18, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2340/2210, P/U-S/O-ROT WT 210-165-179, MW 10.6, VIS 45
	10:30 - 11:00	0.50	DRLPRO	02	D	Р		SLIDE DRILL 8695-8705 = 10', WOB 18-50, TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM 426, MM RPM 68, MW 10.6# VIS 42
	11:00 - 13:30	2.50	DRLPRO	02	D	Р		DRILL 8705-8795 = 90' = 180 FPH, MW 10.6# VIS 44 , WOB 18-22, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187
	13:30 - 15:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 8795-8810 = 15', WOB 18-50, TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM 426, MM RPM 68, MW 10.6# VIS 43

11/3/2009 7:32:44AM

US ROCKIES REGION

Operation Summary Report

Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: H&P 298/298, H&P 298/298 Event: DRILLING Start Date: 12/8/2008 End Date: 2/8/2009

Active Datum: Level)	RKB @4,925.00ft (above Mear	Sea	UWI: N	E/SW/0/	9/S/22/E	/18/0/0/6/PM/S	5/2,551.99/W/0/1,214.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:00 - 16:00	1.00	DRLPRO	02	D	Р	(19)	DRILLING 8810-8889 = 79' = MW 10.6# VIS 44, WOB 18-22, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187
	16:00 - 16:30	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	16:30 - 18:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 8889-8900 = 11' WOB 18-50, TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM 426, MM RPM 68, MW 10.6#, VIS 41
	18:00 - 20:00	2.00	DRLPRO	02	D	Р		DRILL 8900-8985 = 85' = 42.5 FPH, WOB 18-22, MW 10.6# VIS 44 , TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187
	20:00 - 21:30	1.50	DRLPRO	05	С	Р		CCH FOR BIT TRIP, PUMP LCM SWEEP, BUILD SLUG
	21:30 - 0:00	2.50	DRLPRO	06	Α	Р		TRIP OUT FOR BIT & MOTOR CHANGE, DRAG ON BOTTOM +100K, BLOW DOWN KELLY, POOH
2/4/2009	0:00 - 3:00	3.00	DRLPRO	06	Α	P		TRIP OUT BIT #2, L/D MUD MOTOR
	3:00 - 7:00	4.00	DRLPRO	06	A	P		M/U BIT#3, MUD MOTOR, TEST MUD MOTOR, TRIP IN, FILL @ SHOE, CIH TO 6930'
	7:00 - 7:30	0.50	DRLPRO	06	K	P -		INSTALL ROTATING HEAD ,FILL PIPE
	7:30 - 8:30	1.00	DRLPRO	06	A	P		TRIP IN HOLE TO 8930'
	8:30 - 9:00	0.50	DRLPRO	03	D	Р		W & R 54' TO BTM
	9:00 - 10:00	1.00	DRLPRO	02	D	Р		DRILLING 8985-9000=15' WOB,18 MW 10.8VIS 43,RPM 50 MM 68,TQ ON/OFF 13/9,SPP ON/OFF 2360/2160,SPM 95,GPM 426,PU/SO/ROT 240/130/194
	10:00 - 11:00	1.00	DRLPRO	02	D	Р		SLIDE DRILL 9000-9015 WOB 18/55,MW 10.8 VIS 43,RPM MM 68,SPP ON/OFF2270/2167
	11:00 - 12:30	1.50	DRLPRO	02	D	Р		DRILLING 9015-9079=64' WOB,18 MW 10.8,VIS 43,RPM 50 MM 68,TQ ON/OFF 13/9,SPP ON/OFF 2360/2160,SPM 95,GPM 426,PU/SO/ROT 240/130/194
	12:30 - 15:00	2.50	DRLPRO	02	D	Р		SLIDE DRILL 9079-9099 WOB 18/55, PU/SO 240/140, MW 10.8 VIS 43,RPM MM 68,SPP ON/OFF2270/2167
	15:00 - 16:30	1.50	DRLPRO	02	D	Р		DRILLING 9099-9173=74 WOB 18,MW 10.8,VIS 43 RPM 50 MM 68,TQ ON/OFF 14/6,SPP ON/OFF2450/2124,SPM 95,GPM 426,PU/SO/ROT 240/140/194
	16:30 - 17:00	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILLING 9173-9305 =132=18.8 FPH WOB 14-22,MW 10.9,VIS 46 RPM 40-60 MM 68,TQ ON/OFF 14/6,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/1165/194
2/5/2009	0:00 - 4:30	4.50	DRLPRO	02	D	Р		DRILLING 9305-9365=60=13.3FPH,WOB 22 MW 10.9VIS 44,RPM 50,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/165/195
	4:30 - 6:00	1.50	DRLPRO	05	С	Р		CBU,MIX & PUMP SLUG,CHECK FLOW
	6:00 - 7:00	1.00	DRLPRO	06	Α	Р		TOH TO 8065',LOST POWER TO DWKS
	7:00 - 7:30	0.50	DRLPRO	08	В	Р		TROUBLE SHOOT PLC,RE BOOT COMPUTER,& CALIBRATE
	7:30 - 13:00	5.50	DRLPRO	06	Α	Р		TOH,X/O BIT & M MTR
	13:00 - 15:00	2.00	DRLPRO	06	Α	Р		TIH TO 2750' ,BREAK CIRC,BLOW DOWN KELLY
	15:00 - 16:30	1.50	DRLPRO	09	Α	Р		SLIP & CUT DRILL LINE
	16:30 - 19:30	3.00	DRLPRO	06	Α	Р		TIH TO 6000',BREAK CIRC,CIH TO 9275
	19:30 - 20:00	0.50	DRLPRO	03	D	Р		W & R 90' TO BTM

11/3/2009 7:32:44AM

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

 Event: DRILLING
 Start Date: 12/8/2008
 End Date: 2/8/2009

Active Datum: RKB @4,925.00ft (above Mean Sea

UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
vila,	20:00 - 20:30	0.50	DRLPRO	02	D	P	X.Z	DRILLING 9365-9385,WOB 8-15 MW111.0.VIS 48,RPM 45,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/165/204
	20:30 - 22:30	2.00	DRLPRO	02	D	Р		SLIDE DRILL 9385-9404 WOB 20-30 MW 11.0 VIS 46,RPM M MTR 68,SSP ON OFF 2475/2250,GPM 426
	22:30 - 0:00	1.50	DRLPRO	02	D	P		DRILLING 9404-9457,WOB 18 MW11.1.VIS 45,RPM 45,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/170/204
2/6/2009	0:00 - 3:00	3.00	DRLPRO	02	D	P		SLIDE DRILL 9457-9480=23=7.6 FPH WOB 35-45 RPM MM 68,SPM 95,GPM 426,SPP ON/OFF 2550/2400 MW 11.1 VIS 43,LOSING MUD 50 BBLS PUMP LCM SWEEPS,BYPASS SHAKERS @9475'
	3:00 - 15:30	12.50	DRLPRO	02	D	Р		DRILLING 9480-9880= 400=32 FPH WOB 18,MW 11.6 VIS 43,LCM 5% RPM 45 MM 65, SPM 90,GPM 405,PU/SO/RT 250/165/204TOTAL MUD LOSS 120 BBLS TD 9880'@ 1530 HRS 02/06/2009
	15:30 - 17:00	1.50	DRLPRO	05	С	Р		CCH, F/ WIPER TRIP
	17:00 - 19:30	2.50	DRLPRO	06	Ε	Р		WIPER TRIP TO 8000'
	19:30 - 21:00	1.50	DRLPRO	05	С	Р		CCH RU TO LDDS
	21:00 - 0:00	3.00	DRLPRO	06	В	P		SM W/ WEATHERFORD & RIG CREWS LDDS
2/7/2009	0:00 - 5:30	5.50	DRLPRO	06	В	Р		LDDS,PULL WEAR BUSHING
	5:30 - 11:30	6.00	DRLPRO	11	G	P		SM RU HALLIBURTON RUN TRIPLE COMBO,LOGGERS TD 9883',RD SAME SM RU WEATHERFORD TRS RUN 236 JTS OF
	11:30 - 20:00	8.50	DRLPRO	12	Α	Р		41/2,11.6# I-80 LTC CSG
	20:00 - 21:30	1.50	DRLPRO	05	Α	Р		LAND CSG W/60K,RU BJ CIRC CSG
	21:30 - 0:00	2.50	DRLPRO	12	E	P		SM W/ BJ,TEST PUMP & LINES,TO 4500#PUMP 2 BBLS MUD CLEAN,442 SKS(255.8 BBLS) LEAD @ 11.1#,1290 SKS (301BBLS) TAIL@ 14.3# SHUT DOWN WASH PUMP& LINES,DROP TOP PLUG DISPLACE W/ 152.8 BBLS FW BUMP PLUG W/ 3450 PSI 500 OVER DIFF PRESS,FLOATS OK,LOST RETURNS START OF DISPLACEMENT,NO CMT TO SURFACE
2/8/2009	0:00 - 2:30	2.50	DRLPRO	12	Α	P		LD LANDING JT & SETTING TOOL,SET PACKOFF & TEST TO 5000
	2:30 - 8:30	6.00	DRLPRO	14	Α	Р		NDBOPE,CLEAN MUD TANKS,RELEASE RIG TO NBU-922-18F4CS@0830 HRS 02/08/2009

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: MILES 2/2

 Event: COMPLETION
 Start Date: 10/20/2009
 End Date: 10/31/2009

Active Datum: RKB @4,925.00ft (above Mean Sea .evel)				Sea	UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0									
Date	Tim Start-		Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation					
10/21/2009	7:00 -	7:30	0.50	COMP	48		Р		JSA- RUSU ON NEW BASE BEAM.					
	7:30 -		10.50	COMP	31	I	P		ROADED TO LOC 10/20/09. SPOT NEW BASE BEAM. RUSU. ND WH. NU BOP. SPOT EQUIP. RU FLOOR AND TBG EQUIP. MU 3-7/8 BIT, BIT SUB. RIH AS MEAS AND PU JTS 2-3/8" L-80 TBG. TAG AT 9806' W/ 309-JTS IN.					
10/22/2009	7:00 -		0.50	COMP	48		Р		JSA- D/O FC. LD TBG.					
	7:30 -	15:30	8.00	COMP	44	Α	Р		RU PRW SWIVEL W/ #309 AND EST REV CIRC. C/O CMT FRO 9806' TO FC AT 9832'. D/O FC AND 10' HARD CMT TO 9842' W/ 310-JTS 2-3/8" L-80 TBG IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 5-JTS. P-TEST TO 3000#. GOOD. CONT POOH AS LD TBG. LD BIT AND BIT SUB. RD FLOOR. ND BOP. NU FRAC VALVES. RDSU.					
10/24/2009	7:00 -	10:00	3.00	COMP	47	С	Р		X-OUT FMC TBG HEAD DUE T/TBG HEAD IS THE SAME BATCH AS ON THE 18K2 WELL. ((THE ONE THAT PARTED.))					
10/26/2009	7:00 -	7:30	0.50	COMP	48		Р		HSM. SIM OPS.					
	7:30 -	17:00	9.50	COMP	37	В	Р		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000#. GOOD TEST. BLEED OFF PSI. RU ON NEXT WELL. MIRU CUTTER'S WL. STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF F/ 9810'-14', 4 SPF, 16 HOLES. 9792'-94', 3 SPF, 6 HOLES. 9728'-30', 3 SPF, 6 HOLES. 9649'-54', 3 SPF, 15 HOLES. POOH. SWI. WINTERIZE WELL HEAD.					

11/3/2009 7:33:42AM

Operation Summary Report Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Site: NBU 922-18L PAD Rig Name No: MILES 2/2 Project: UTAH-UINTAH Start Date: 10/20/2009 End Date: 10/31/2009 Event: COMPLETION UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0 Active Datum: RKB @4,925.00ft (above Mean Sea Level) Operation Sub P/U MD From Duration Phase Code Date Time Code Start-End (hr) (ft) Р STG 1) OPEN WELL 1109# 7:00 - 23:59 16.98 COMP 36 В 10/27/2009 BEG PUMPING, BRK @ 3930# @ 6.4 BPM. SD ISIP 3103#, FG .75. BEG FRAC. EST INJT RT @ 51.4 BPM @ 5453# = 100% PERF'S OPEN. PUMP 44,977# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC, SD ISIP 2981# FG .74. SWI. X-OVER T/ GREEN. STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9628' P/U PERF F/ 9596'-98', 4 SPF, 8 HOLES. 9575'-78', 4 SPF, 12 HOLES. 9494'-96', 4 SPF, 8 HOLES. 9450'-52', 3 SPF, 6 HOLES. 9366'-68', 3 SPF, 6 HOLES. POOH. OPEN WELL 2680#. BEG PUMPING, BRK @ 3080# @ 6.4 BPM. SD ISIP 2680# FG .71. BEG FRAC, EST INJT RT @ 51.4 BPM @ 5700# =81% PERFS OPEN. PUMP 40,969# 30/50 WHITE & TAIL IN W/ 5,000# TLC. SD ISIP 2970# FG .74. SWI, X-OVER T/ GREEN WELL STG 3)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM. .36 HOLE SIZE, 90.120 & 180 DEG PHASING. RIH SET CBP @ 9,354' P/U PERF F/ 9320'-24', 4 SPF, 16 HOLES. 9268'-72', 3 SPF, 12 HOLES. 9086'-92', 2 SPF, 12 HOLES. POOH. WHP 2,356 PSI, BRK 3,556 PSI @ 6.4 BPM. ISIP 2,767 PSI, FG .74. PUMP 100 BBLS @ 51.5 BPM @ 5,460 PSI = 100% HOLES OPEN. MP 5,844 PSI, MR 51.7 BPM, AP 5,060 PSI, AR 47.5 BPM, ISIP 2,706 PSI, FG .72, NPI -61 PSI PMP 836 BBLS SW & 25.905 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 30,905 LBS, STG 4) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 9,060' & PERF 9,026' - 30' 4SPF, 8,964' - 70' 3SPF, 8,902' - 04' 3SPF, 40 HOLES WHP 2,218 PSI, BRK 2,841 PSI @ 6.3 BPM. ISIP 2,557 PSI, FG .72. PUMP 100 BBLS @ 51.5 BPM @ 4,950 PSI = 100% HOLES OPEN. MP 5,567 PSI, MR 51.7 BPM, AP 4,614 PSI, AR 47.9 BPM, ISIP 2,882 PSI, FG .75, NPI 325 PSI. PMP 879 BBLS SW & 27,239 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,239 LBS.

2

STG 5) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,862' & PERF 8,828' - 32' 3SPF, 8,790' - 92' 4SPF, 8,726' - 28' 4SPF, 8,654' - 56' 3SPF,

WHP 875 PSI, BRK 3,554 PSI @ 6.5 BPM. ISIP

8,618' - 20' 3SPF, 40 HOLES

2,246 PSI, FG .69.

US ROCKIES REGION Operation Summary Report Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: MILES 2/2 End Date: 10/31/2009 **Event: COMPLETION** Start Date: 10/20/2009 Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0 Level) Phase **MD** From Time Duration Code Sub P/U Operation Date Start-End Code (ft) (hr) PUMP 100 BBLS @ 56.3 BPM @ 5,450 PSI = 76% HOLES OPEN. MP 5,509 PSI, MR 56.6 BPM, AP 4,666 PSI, AR 54 BPM, ISIP 2,662 PSI, FG .74, NPI 416 PSI. PMP 3,306 BBLS SW & 133,872 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 138,872 LBS, STG 6) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH SET CBP @ 8,512' & PERF 8,478' - 82' 3SPF, 8,424' - 30' 3SPF, 8,356' - 60' 3SPF, 42 HOLES. SWI SDFN. Ρ HSM. FRACING & PERFORATING 10/28/2009 6:30 - 7:00 0.50 COMP 48

Well: NBU 922	2-18K1BS (RED WE	ELL)					Spud Date: 1:	2/30/2008			
Project: UTAH	-UINTAH		Site: NB	U 922-18	BL PAD			Rig Name No: MILES 2/2			
Event: COMPl				te: 10/20				End Date: 10/31/2009			
Active Datum: Level)	RKB @4,925.00ft (above Mean	Sea	UWI: N	E/SW/0/	9/S/22/E	/18/0/0/6/PM/S	/2,551.99/W/0/1,214.00/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation			
	7:00 - 15:00	8.00	COMP	36	В	Р		STG 6) WHP 1577 PSI, BRK 3775 PSI @ 6.4 BPM. ISIP 1705 PSI, FG .63. PUMP 100 BBLS @ 51.4 BPM @ 4800 PSI = 62% HOLES OPEN. MP 5368 PSI, MR 51.8 BPM, AP 4417 PSI, AR 47.5 BPM, ISIP 2693 PSI, FG75, NPI 988 PSI. PMP 1461 BBLS SW & 54,684 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 59,684 LBS, STG 7)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH			
								SET CBP @ 8180' P/U PERF F/ 8146'-50', 4 SPF, 16 HOLES. 8104'-06', 4 SPF, 8 HOLES. 8064'-68', 3 SPF, 12 HOLES. 7956'-58', 3 SPF, 6 HOLES. POOH. WHP 900 PSI, BRK 2643 PSI @ 6.4 BPM. ISIP 1634 PSI, FG .63. PUMP 100 BBLS @ 51.4 BPM @ 4300 PSI = 79% HOLES OPEN. MP 4969 PSI, MR 51.7 BPM, AP 3891 PSI, AR 43.1 BPM, ISIP 2383 PSI, FG .73, NPI 749 PSI. PMP 1461 BBLS SW & 17,965 LBS OF 30/50 SND 8 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 22,965 LBS, SWI. X-OVER T/ GREEN WELL.			
	7:00 7:00	0.50	COMP	40				STG 8)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7888' P/U PERF F/7852'-58', 4 SPF, 24 HOLES. 7820'-24', 4 SPF, 16 HOLES. POOH. WHP 610 PSI, BRK 3229 PSI @ 6.4 BPM. ISIP 2221 PSI, FG .71. PUMP 100 BBLS @ 51.4 BPM @ 4900 PSI = 81% HOLES OPEN. MP 5219 PSI, MR 51.8 BPM, AP 4293 PSI, AR 45.1 BPM, ISIP 2750 PSI, FG .78, NPI 529 PSI. PMP 774 BBLS SW & 25,345 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 30,345 LBS, SWI. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7770'. POOH, SWI. FINISH PAD. RDMO CUTTER'S WL & SCHLUMBERGER FRAC SERV. GREAT JOB BY BOTH.			
10/30/2009	7:00 - 7:30 7:30 - 7:30	0.50 0.00	COMP	48 44		P P		DRILLING PLUGS MIRU, ND FRAC VALVE, NU BOP'S, NU MILL, POBS, XN SN, PU TBG, RIH WITH TBG, TAG 1ST PLUG @ 7770'. 1ST PLUG 7770' 0' SAND 8 MIN 200# KICK 2ND PLUG 7888' 10' SAND 20 MIN 400# KICK 3RD PLUG 8180' 30' SAND 10 MIN 600# KICK TURN WELL TO FBC FOR NIGHT.			

Operation Summary Report

Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Site: NBU 922-18L PAD Rig Name No: MILES 2/2 Project: UTAH-UINTAH End Date: 10/31/2009 Start Date: 10/20/2009 Event: COMPLETION UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0

Active Datum: RKB @4,925.00ft (above Mean Sea

_evel)								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/31/2009	7:00 - 7:30	0.50	COMP	48	1	Р		DRILL PLUGS
	7:30 - 7:30	0.00	COMP	44		P		DRILL PLUGS PLUG #4 8512' 30' SAND 10 MIN 700# KICK PLUG #5 8862' 20' SAND 10 MIN 200# KICK PLUG #6 9060' 20' SAND 8 MI9N 300# KICK PLUG #7 9366' 15' SAND 10 MIN 200# KICK PLUG #8 9628' 20' SAND 15 MIN 200# KICK RIH TO 9831' TAG, 310 JTS, LD 17 JTS TO 9321' LAND TBG. ND BOP'S, NU WH, PUMP OFF BIT SUB.1500# TURN TO FBC 1:00 PM. RDMO TO BLUE WELL
11/1/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 2825#, TP 1725#, 20/64" CK, 45 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3080 BBLS LEFT TO RECOVER: 7702
	10:30 -		PROD	50				WELL TURNED TO SALES @ 1030 HR ON 11/01/2009 - 1300 MCFD, 1080 BWPD, FTP 1850#, CP 3200#, CK 20/64"
11/2/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 3350#, TP 1975#, 20/64" CK, 32 BWPH, TRACE SAND, 1320 GAS TTL BBLS RECOVERED: 4013 BBLS LEFT TO RECOVER: 6769

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

WELL	COMPLETION	OR RECOMPLETION	DEPORT AND LOC
**	- COMPLETION	OR RECUIRE FIRM	REPURIANIII III.

	VVELL	COMP	LETION	UR R	ECO	MPLE	IION K	EPOR	I ANL	LO	G			ease Serial JTU0359	No.	
la. Type	of Well [Oil Wel	l ⊠ Gas New Well			-	Other	5 N	D 1				6. If	Indian, Al	lottee or	Tribe Name
o. Type (or Completio	_	er		ork Ov	/er	Deepen	⊔ PI	ug Back		Diff. R	esvr.	7. U	nit or CA 2	Agreeme	ent Name and No.
2. Name o	of Operator -MCGEE O	IL&GAS (ONSHORE	ELMail:	andre	Contact	ANDY L	YTLE o.com					8. L	ease Name	and We	
3. Address	s P.O. BO						3a.	Phone 1: 720-9			ea code)		\vdash	PI Well No		
4. Locatio	n of Well (Re			nd in ac	corda	nce with 1				, 			10. I	ield and P	ool, or E	43-047-39824 Exploratory
At surf	ace NESV	N 2551FS	SL 1214FW	L 40.03	3578 N	N Lat, 10	9.48571 \	W Lon						ATURAL Sec. T. R		S Block and Survey
At top	prod interval	reported b	elow NE	SW 26	04FSL	_ 1819FV	VL.						0:	r Area Se	c 18 T9	S R22E Mer
At total		SW 2595	FSL 1818F											County or F IINTAH	arish	13. State UT
14. Date S 10/31/	14. Date Spudded 10/31/2008 15. Date T.D. Reached 02/06/2009 16. Date Completed □ D & A														, RT, GL)*	
18. Total I		MD TVD	9880 9826		1	Plug Bac		MD TVD		9831 7 <i>74</i>	2	20. Dep	th Bri	dge Plug S		MD TVD
21. Type I	Type Electric & Other Mechanical Logs Run (Submit copy of each) 22. Was well cored? Was DST run? No Yes (Submit analysis) Was DST run?												(Submit analysis)			
	nd Liner Rec			a not in	a]]]\						Direct	ional Su	vey?			(Submit analysis)
Hole Size	Size/C		Wt. (#/ft.)		op	Bottor	n Stage	Cemente	er No	of Sk	s. &	Slurry	Vol.	<u> </u>		
20.000	 	0 STEEL		(M	D)	(MD)		Depth	Тур	e of C		(BB	L)	Cement	1 op*	Amount Pulled
12.250		625 J-55	36.7 40 28 40.0 2820 700								 					
7.875	5 4	.500 I-80	11.6				57				1732					
					-											
				 					—							
24. Tubing	Record			<u> </u>								l				
Size	Depth Set (N	MD) P	acker Depth	(MD)	Siz	ze D	epth Set (1	MD)	Packer I	Depth (MD)	Size	De	pth Set (M	D) P	Packer Depth (MD)
2.375		9321								·!`				(212		world Bobin (NB)
	ng Intervals	<i>U/\$1</i>					26. Perfor	ation Rec	ord							
A)	ormation MESAVE	EDDE	Тор	7820	Bot	ttom	<u>F</u>	erforated				Size		lo. Holes		Perf. Status
B)	IVILOAVI	ENDE		7020		9814			7820	TO 9	814	0.36	50	327	OPEN	·
C)			 				· · · · · ·						+-			···
D)													+-			
27. Acid, Fi	racture, Treat	tment, Cen	nent Squeez	e, Etc.										/ E		
	Depth Interv								mount a	nd Ty	pe of M	aterial		, , ,	LC	EIVED
		320 TO 98	314 PMP 10	,467 BE	LS SL	ICK H20 8	410,956	LBS 30/5	0 SD.						EC (7 2009
														DIV. OF	Oil 12	AS & MINING
28. Product	ion - Interval	A	I						-						Ψ, C,	AS & MINING
Date First Produced	Test Date	Hours Tested	Test	Oil BBL		Jas	Water		ravity		Gas]	roductio	on Method		
11/01/2009	11/06/2009	24	Production	DDL	l N	ACF 1963.0	BBL 480.0	Corr.	API		Gravity	-		FLOW	/S FROM	M WELL
choke ize	Tbg. Press. Flwg. 1409	Csg. Press.	24 Hr. Rate	Oil BBL		Gas ACF	Water BBL	Gas:			Well Sta	tus		·	-	
20/64	SI	2725.0		<u> </u>		1963	480				PC	3W				
	tion - Interva															
Pate First roduced	Test Date	Hours Tested	Test Production	Oil BBL		jas ACF	Water BBL	Oil C Corr.	ravity API		Gas Gravity	Ī	roductio	n Method		
hoke ize	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		ias ICF	Water BBL	Gas:0 Ratio			Well Sta	tus				

001 D 1		1.0										
Date First	uction - Interv		Test	lou	10	T _{117.} 1	01.0	15		1		
Produced	Date	Hours Tested	Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cort. API	Gas Grav		Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	Status	· · · · · · · · · · · · · · · · · · ·		
28c. Prod	uction - Interv	val D		·			-				+	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav	ity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Oil Gas Water Gas:Oil Well Status Rate BBL MCF BBL Ratio									
29. Dispos	sition of Gas(Sold, used	for fuel, vent	ed, etc.)	<u>. </u>							
30. Summ	ary of Porous	Zones (Ir	ıclude Aquife	rs):					31. For	mation (Log) M	arkers	
tests, i	all important including dept coveries.	zones of p th interval	orosity and co tested, cushic	ontents there on used, time	eof: Cored in e tool open,	ntervals and all flowing and sh	drill-stem aut-in pressure	3				
	Formation		Тор	Bottom		Descriptions	, Contents, etc			Name		Top Meas. Depth
GREEN R MAHOGAI WASATCH MESAVEF	NY H RDE onal remarks CHED TO T	(include p	1789 2553 5114 7947	7812 9823 9823 dure): EPORT IS	THE CHR	ONOLOGICA	L WELL HIS	TORY AN	ND END (OF WELL		
1. Elec 5. Sun	ndry Notice fo	nical Logs r plugging	Electi	verification ned informa	tion is comp	2. Geologic Re 6. Core Analys olete and correct 51 Verified by IL&GAS ON	et as determine	7 d from all	ation Sys	records (see atta	4. Direction	
Name ((please print)	ANDY L	YTLE			· · · · · · · · · · · · · · · · · · ·	Title RI	EGULAT	ORY ANA	ALYST		
Signati	ure/	(Electron	nic somissio	on)			Date <u>12</u>	2/01/2009)			
Title 18 U.	S.C. Section	1001 and	Title 43 U.S.C	. Section 12	212, make it	a crime for an	y person know	ingly and	willfully	to make to any c	lepartment or a	gency

Operation Summary Report

Well: NBU 92:	2-18K1B	S (RED WI	ELL)	· · · · · · · · · · · · · · · · · · ·		Spud Date: 12/30/2008				
Project: UTAH	I-UINTAH	1		Site: NB	U 922-1	BL PAD			Rig Name No: H&P 298/298, H&P 298/298	
Event: DRILLI	NG			Start Da	te: 12/8/	2008			End Date: 2/8/2009	
Active Datum: Level)	RKB @4	1,925.00ft (above Mea	n Sea	UWI: N	E/SW/0/	9/S/22/E	/18/0/0/6/PM/S	5/2,551.99/W/0/1,214.00/0/0	
Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
12/8/2008	0.00									
12/29/2008	2:00	- 4:00	2.00	DRLSUR	01	С	S		Prep to skid rig, rig up 2" steam hoses.	
•		- 6:00	2.00	DRLSUR	01	С	Р		Skid rig to NBU 922-18K1BS	
		- 14:30	8.50	DRLSUR	01	С	P		Heat 16" conductor and 20" conductor, install new "O" ring seal. Rig up both sections of conductor. Rig up flow line to conductor and preacher stand manifold. Install blank flange to preacher stand manifold. Hook up mud line. Install turn buckles and center conductor. Install fill up line and flow line manifold. Install 2" jet line on low line manifold. Transfered mud to pit and circulate over shakers to clean out shale and LCM. Install pipe racks and unload casing.	
		- 21:30 - 23:00	7.00 1.50	DRLSUR DRLSUR	01 12	C	S		It was noticed that the landing sleeve for the DTO well head was not installed. Pickup conductor, install landing sleeve and tack with welder. In the process of doing this the new "O" ring seal was broken, had to wait on new seal. Install conductor, flow line, turn buckles and fill up line. It took 3 hours after "O" ring showed up to get conductor nippled up Chage out casing bails for drilling bails	
	23:00	- 0:00	1.00	DRLSUR	08	Α	S		Inspect saver sub, change out dies and bolts in	
	0.00								grabber. Not showed as rig repair on IADC	
12/30/2008		- 0:30	0.50	DRLSUR	80	Α	S		Inspect savor sub, change dies and bolts in grabber	
		- 3:30	3.00	DRLSUR	06	A	P		Pickup stand with mud motor, break and change out mud motors	
		- 4:00 - 4:30	0.50	DRLSUR	01	В	P		Pressure test mud line and pump#2 to 3500 psi, pop-off leaking on pump #1	
			0.50	DRLSUR	08	В	S		Change out pop-off on #1 pump	
		- 5:00 - 6:00	0.50 1.00	DRLSUR	01	В	P		Pressure test both pumps to 3500 psi for 10 minutes. Blow down mud line	
		- 7:00	1.00	DRLSUR	08 01	A B	s s		Change out winch line on driller side	
	0.00	- 7.00	1.00	DRESOR	O1	В	5		Prepare to spud. Organized rig floor. Gather slips, collar clamp, thaw and clean tool joint threads. Finish changing out winch line on driller side. Pickup new bit. NOTE THIS SHOULD BE DOWN TIME. IF THEY HAD THERE HEATERS RUNNING AND SUB TARPED IN THIS WOULD NOT HAVE BEEN A PROBLEM	
		- 8:30	1.50	DRLSUR	06	Α	Р		Make up bit, scribe high side of motor and pickup MWD tools	
		- 9:00	0.50	DRLSUR	80	Α	S		Tagged bottom at 111'. break circulation, no returns, flow line frozen	
		- 10:30	1.50	DRLSUR	80	В	S		Thaw out flow line	
		- 14:30	4.00	DRLSUR	02	D	Р		Drill 111' - 284', WOB 2 - 10k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 1075/875, Torque On/Off Bottom 3/0, Mud Wt 9.9, Visc 37, Footage 173', FPH 43.25	
		- 15:00	0.50	DRLSUR	07	Α	Р		Rig service	
	15:00	- 15:30	0.50	DRLSUR	80	Α	s		Repair ST-80 change out clamp/unclamp cable	

11/30/2009

3:23:28PM

Operation Summary Report

Spud Date: 12/30/2008 Well: NBU 922-18K1BS (RED WELL) Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: H&P 298/298, H&P 298/298 Event: DRILLING Start Date: 12/8/2008 End Date: 2/8/2009 Active Datum: RKB @4.925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2.551.99/W/0/1.214.00/0/0 Level) Date Time Duration Phase Code Sub P/U MD From Operation Start-End (hr) Code (ft) 15:30 - 17:00 DRLSUR Drill 284' - 374', WOB 2 - 10k, GPM 736, Pump #1 1.50 02 D SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 1160/1075, Torque On/Off Bottom 3/0, Mud Wt 9.9, Visc 37, Footage 90', FPH 17:00 - 17:30 0.50 DRLSUR 23 S Safety shut down, inspect top drive for missing bolts, found 2 bolts with out keeper pins on bail ears 17:30 - 18:00 0.50 **DRLSUR** 08 Α S Repair ST-80 adjusted cables for forward backward controls 18:00 - 0:00 Ρ Drill 284' - 1000', WOB 10-25k, GPM 736, Pump #1 DRLSUR 6.00 02 D SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 9/3, Mud Wt 9.8, Visc 35, Footage 716', FPH 119.3 Slide Parameters (111'-131') (286'-311') (374'-398') (567'-582') (747'-760') (834'-859') (1023'-1040') WÓB 18k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 0, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 0/0, Mud Wt 9.8, Visc 35. 12/31/2008 0:00 - 9:30 9.50 DRLSUR 02 D P DRILL F/1000'-1871, WOB 10-25k, GPM 736, Pump #1 SPM 82, Pump #2 SPM 82, RPM 55, Motor RPM 117, SPP On/Off Bottom 2350/2120, Torque On/Off Bottom 9/3, Mud Wt 9.8, Visc 35, Footage 871', FPH 91.68 9:30 - 12:00 2.50 DRLSUR 22 G Х LOST RETURNS @ 1869' BUILD VOL. PUMP 3 50 BBLS HIGH VIS AND 10% LCM SWEEPS. LOST OVER 300 BBLS. WENT BACK TO DRILLING WITH LOWER SPM 72/72 FOR 1 HR. AND REGAINED FULL RETURNS. 12:00 - 0:00 12.00 DRLSUR 02 D Р DRILL F/1871-2790, WOB 10-25k, GPM 738, PUMP #1 SPM 82, PUMP #2 SPM 82, RPM 50-55, MOTOR RPM 112, SPP ON/OFF BOTTOM 2200/1790, TORQUE ON/OFF BTM 9/3, MUD WT 9.1, VIS 34, FTG 919', FPH 76.5 BYPASS SHAKERS FOR LCM, DUMP SANDTRAP EVERY HR. 0:00 1/1/2009 - 1:00 1.00 DRLSUR 02 D Ρ DRILL F/2790-2840, WOB 10-25k, GPM 738, PUMP #1 SPM 82, PUMP #2 SPM 82, RPM 50-55, MOTOR RPM 112, SPP ON/OFF BOTTOM 2200/1790, TORQUE ON/OFF BTM 9/3, MUD WT 9.1, VIS 34, FTG 50', FPH 50.0 BYPASS SHAKERS FOR LCM, DUMP SANDTRAP EVERY HR. CIRC AND PUMP HIGH VIS AND LCM SWEEP, 1:00 2:00 1.00 DRLSUR 05 С Р BUILD AND PUMP SLUG. 2:00 - 9:00 7.00 DRLSUR 06 Α Р TRIP OUT, L/D DIRECTIONAL TOOLS. THAW OUT RIG FLOOR WHILE TRIPPING TO USE EQUIPMENT TO TRIP..STEAM LINES, MUD LINE AND LINES FREEZING WHILE FILLING HOLE. - 10:30 1.50 **DRLSUR** 06 Р PICK UP BIT, BIT SUB AND TRIP IN WITH 2-8" Α DC's NO TIGHT SPOTS. 14' OF FILL ON BTM. 10:30 - 13:30 LOST CIRC 15 MINS AFTER PUMPING, BUILD 3.00 DRLSUR 22 G Р MUD AND PUMP LCM SWEEPS. LOST 300 BBLS OF MUD TO WELL. 13:30 - 17:00 3.50 DRLSUR 06 D Р TRIP OUT L/D 2-8" DC'S HELD SAFETY WITH L/D TRUCK TO L/D DC'S. 17:00 - 19:30 2.50 DRLSUR 12 Α Р CHANGE OUT BAILS AND ELEVATORS AND RIG UP CASING EQUIPMENT. 19:30 - 20:00 DRLSUR P 0.50 07 Α CLEAN RIG FLOOR OF ICE. 20:00 - 0:00 4.00 DRLSUR 12 C P RUN 64 JTS, OF 9 5/8, 40#, J-55 LTC 1/2/2009 0:00 - 2:00 2.00 CSG 12 С Р RUN 64 JTS. OF 9 5/8, 40#, J-55 LTC LAND AND SET CASING AT 2820'

11/30/2009 3:23:28PM

Operation Summary Report

Well: NBU 922-18K1BS (RED WELL) Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING Start Date: 12/8/2008 End Date: 2/8/2009

Event: DRILL	ING		Start Da	ate: 12/8/2008 End Date: 2/8/2009								
Level)	: RKB @4,925.00ft (above Mear	Sea	UWI: N	IE/SW/0	/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (ft)					
	2:00 - 6:30 6:30 - 8:30	2.00	CSG	05 12	D E	X P	CIRC CASING DRILLING NIPPLE LEAKING FROM ORING SEAL. WORK ON CELLAR PUMPS TO SUCK OUT CELLAR PREPARE TO CMT. CASING HELD SAFETY MTG WITH BJ CEMENT AND PUMPED LEAD 180 BBLS, 300 SKS OF PREMIUM LITE 11.0#, 3.38 YIELDTAIL 42 BBLS 200 SX, GLASS G, 15.8#, 1.15 YIELDPUMPED 211 BBL					
	8:30 - 11:00	2.50	CSG	12	E	Р	DISPLACEMENT, BUMPED PLUG WITH 600 PSI FLOAT EQUIPMENT HELD. GOT 8 BBLS OF CMT TO SURFACE CMT DROPPED OUT OF SIGHT. RAN 260' OF 3/4" PIPE FOR TOP JOB. PUMPED 20.5 BBL, 100SKS CLASS G 15.8# AND GOT CMT					
	11:00 - 13:00	2.00	CSG	13	Α	Р	BACK TO SURFACE. WAIT ON CMT FELL BACK OUT OF SIGHT.					
	13:00 - 14:30	1.50	CSG	12	E	P	RAN 80' OF 3/4" PIPE AND PUMPED 20.5 BBL, 100SKS CLASS G 15.8# AND GOT CMT BACK TO SURFACE. FELL 2' AND STAYED THERE.					
	14:30 - 15:00	0.50	CSG	13	Α	Р	WAIT ON CMT FELL BACK 2' BELOW FLOWLINE AND STAYED THERE.					
	15:00 - 16:00	1.00	CSG	12	Ε	P	FLUSH FLOWLINE, BLOW DOWN ALL MUD					
	16:00 - 20:00	4.00	CSG	14	Α	Р	LINES. RIG DOWN CMT EQUIPMENT. L/D LANDING JT. AND BAILS AND ELEVATORS, L/D MOUSE HOLE. UNBOLT AND NIPPLE DOWN DRILLING NIPPLE.					
	20:00 - 0:00	4.00	CSG	01	Α	Р	DUMP AND CLEAN MUD PITS, PUMPS AND ALL MUD LINES. RELEASED RIG AT 23:59 ON 1/2/09					
1/24/2009	18:00 - 21:00	3.00	DRLPRO	01	С	Р	PREPARE RIG FOR SKIDDING, SKID RIG TO 18K1BS & CENTER UP, RIG UP EQUIPMENT AFTER SKID-STAIRS, CATWALK, V-DOOR					
	21:00 - 0:00	3.00	DRLPRO	08	В	Р	6 MONTH MAINTENANCE ON RAMS, MP MOTORS, TOP DRIVE, ELECTRICAL SYSTEM, QTRLY INSP ON DRAWWORKS, MONTHLY INSPECTION ON MOTORS					
1/25/2009	0:00 - 7:30	7.50	DRLPRO	14	Α	Р	NIPPLE UP BOPE, INSTALL NEW CHOKE LINE EXTENSION FROM CHOKE HOUSE, INSTALL DRIP PANS, TURNBUCKLES, FUNCTION TEST BOPS					
	7:30 - 12:00	4.50	DRLPRO	15	Α	Р	TEST BOP'S=ANN 250-5 MIN, 2500-10, TEST RAMS, CHOKE LINE, CHOKE MANIFOLD, IBOP, FLOOR VALVE, TOP DRIVE 250/5, 5000/10 MIN					
	12:00 - 15:30	3.50	DRLPRO	80	В	Z	CHANGE OUT RAISING CYLINDER ON GRABBER OF TOP DRIVE.					
	15:30 - 16:00	0.50	DRLPRO	07	Α	Р	DAILY RIG SERVICE					
	16:00 - 21:00	5.00	DRLPRO	09	Α	Р	CHANGE OUT DRILLING LINE (COMPLETE) WITH NEW SPOOL OF LINE, SET TWIN STOPS					
	21:00 - 23:00	2.00	DRLPRO	06	Α	Р	M/U BIT #-QD506 W/ 6-12, P/U NEW BENT MUD MOTOR 1.11DEG, ORIENT TOOLS, P/U 1-HWDP TO TEST MUD MOTOR-TD FAILED					
	23:00 - 0:00	1.00	DRLPRO	80	В	Z	TD FAILURE IN CONTROL SYSTEMS, UNABLE TO MAKEUP, TROUBLESHOOT FAILURE					
1/26/2009	0:00 - 15:00	15.00	DRLPRO	08	В	Z	TROUBLE SHOOT TOP DRIVE PROBLEM, CHANGE CABLES, ENCODER CARD, FOUND LOOSE PINS IN ENCORDER PIGTAIL					
	15:00 - 15:30	0.50	DRLPRO	07	Α	P	SERVICE RIG, CHANGE OIL IN TOP DRIVE					
	15:30 - 18:00		DRLPRO	06	Α	Р	FUNCTION TEST MUD MOTOR-OK, TRIP IN HOLE TO 1800', INSTALL ROTATING HEAD RUBBER, TRIP IN TO 2769, TAG CEMENT,					
	18:00 - 20:00	2.00	DRLPRO	02	F	Р	DRILL CEMENT, PLUG, FLOAT COLLAR, SHOE, CEMENT TO 2840					

11/30/2009 3:23:28PM

Operation Summary Report

Well: NBU 922-18K1BS (RED WELL) Spud Date: 12/30/2008

Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING Start Date: 12/8/2008 End Date: 2/8/2009

Event: DRILLI	VG	Start Da	te: 12/8/	2008			End Date: 2/8/2009		
Active Datum: _evel)	RKB @4,925.00ft (above Mea	n Sea	UWI: N	E/SW/0/9	9/S/22/E	/18/0/0/6/PM/S	5/2,551.99/W/0/1,214.00/0/0	
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
·	20:00 - 21:30	1.50	DRLPRO	02	D	Р		SPUD ACTUAL, DRILL 2840-2881 = 41' = 27.3 FPH TORQUE ON/OFF 4/1.5K, SPP ON/OFF 1250/1175, STRING WT UP/DOWN/ROT, WOB 10, SPM 70,GPM 315, RPM 45, MW 9.6, VIS 30, LCM 0,	
	21:30 - 23:30	2.00	DRLPRO	02	D	Р		SLIDE DRILL 2881-2889 = 8' = 4 FPH, SPP 1100, WOB 18-24, SPM 90,GPM 405, RPM 0, MW 9.4, VIS 33, LCM 0.	
	23:30 - 0:00	0.50	DRLPRO	02	D	Р		ROTARY DRILL 2889-2929 = 40' = 80 FPH, TORQUE ON/OFF 4/1.5K, SPP ON/OFF 1250/1175, STRING WT UP/DOWN/ROT 107/97/105, WOB 10, SPM 70,GPM 315, RPM 45, MW 9.4, VIS 30, LCM 0,	
1/27/2009	0:00 - 0:30	0.50	DRLPRO	02	D	Р		DRILL 2889-2945 = 56' = 112 FPH, MW 9.5# 34 VIS, SPM 90, GPM 404, SPP ON/OFF 1250/950, DIFF 200, RPM 45, TORQUE ON/OFF 4/2K,	
	0:30 - 2:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 2945-2951, MW 9.5# 34 VIS, SPM 90, GPM 404, SPP ON/OFF 1250/95	
	2:00 - 3:30	1.50	DRLPRO	02	D	P		ROT DRILL2951-2951 TO WIPE FORMATION, SLIDE 2954-2959 = 5', MW 9.5# VIS 35, SPM 90, GPM 404, SPP 950-1050, WOB 5-??, UNABLE TO SLIDE WITH NORMAL WOB, STRING SLIPS DOWN PUTTING HIGH WOB AND STALLING MOTOR	
	3:30 - 4:30	1.00	DRLPRO	02	D	Р		ROT DRILL 2959-3039 = 80' = 80 FPH, MW 9.5# VIS 34, WOB 18-22, SPP ON/OFF 1250/975, DIFF 250, GPM 404, SPM 90, RPM 45, TORQUE ON/OFF 4.2/2.5K,	
	4:30 - 6:00	1.50	DRLPRO	02	D	Р		SLIDE DRILL 3039-3052, 13', WOB 20, DIFF PRESS 175, SPP ON/OFF1050/980, SPM 90, GPM 404	
	6:00 - 6:30	0.50	DRLPRO	02	D	Р		DRILL 3052-3071 = 19' MW 9.5#, VIS 35, SPM 90, GPM 404, SPP ON/OFF 1250/950, DIFF 200, RPM 55, TORQUE ON/OFF 6/2K, WOB 18	
	6:30 - 7:30	1.00	DRLPRO	02	D	Р		SLIDE DRILL 3071-3081, MW 9.5#, VIS 35, SPM 90, GPM 404, DIFF 120, SPP ON/OFF 1180/1060	
	7:30 - 8:00	0.50	DRLPRO	02	D	Р		ROT DRILL 3081-3134 = 53' = 106 FPH, MW 9.5# VIS 35, SPM 90, GPM 404, SPP ON/OFF 1240/1080, DIFF 250, RPM 55, TORQUE ON/OFF 6/2K, WOB 18	
	8:00 - 9:30	1.50	DRLPRO	02	D	Р		SLIDE DRILL 3134-3139, MW 9.5#, VIS 35, SPP ON/OFF 1150/1030,	
	9:30 - 10:00	0.50	DRLPRO	05	С	Р		CIRCULATE HOLE, BUILD SLUG FOR TRIP	
	10:00 - 12:00	2.00	DRLPRO	06	Α	Р		TRIP OUT WITH BIT #1, HOLE GOOD, PULL ROTATING HEAD RUBBER	
	12:00 - 13:30	1.50	DRLPRO	06	J	Р		L/D MUD MOTOR WITH STABILIZER, L/D IBS,	
	13:30 - 14:00	0.50	DRLPRO	07	Α	Ρ		SERVICE RIG	
	14:00 - 14:30	0.50	DRLPRO	06	J	Р		P/U DIRECTIONAL MOTOR, M/U DIRECTIONAL TOOLS, ORIENT SAME, M/U BIT #1RR,	
	14:30 - 16:30	2.00	DRLPRO	06	Α	Р		TRIP IN HOLE, HOLE GOOD,	
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL 3139-3599 = 460' = 61.3 FPH AVG, MW 9.5#, 36 VIS, SPM 90, GPM 404, SLIDE DRILL 3253-3265, 3316-3331, 3347-3355, 3410-3420, 3442-3450, 3502-3512, 3537-3545, TORQUE ON/OFF 3/1K, SPP ON/OFF 1480/1180, WOB 14-16, SPM 90, GPM 404, ROP 25-50,==ROTARY DRILL TORQUE ON/OFF 7.2/2.5K, SPP ON/OFF 1260-1500/1150-1225, ST WT UP/DOWN/ROT 118/105/108	

Operation Summary Report

Well: NBU 92	2-18K1BS (RED W	ELL)	<u> </u>		<u> </u>		Spud Date: 12	/30/2008
Project: UTAH	I-UINTAH		Site: NB	U 922-1	8L PAD			Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLI	NG		Start Da	te: 12/8/	2008			End Date: 2/8/2009
Active Datum: Level)	RKB @4,925.00ft	(above Mear	Sea	UWI: N	IE/SW/0/	9/S/22/E	E/18/0/0/6/PM/S/2	2,551.99/W/0/1,214.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/28/2009	0:00 - 16:30 16:30 - 17:00	16.50	DRLPRO	02	D	Р		DRILL 3599-4449= 850' = 51.5 AVG ROP, MW 9.5#, VIS 36, WOB 18-20, SPM 90, SPP ON/OFF 11780/1560, DIFF 280, RPM 45, GPM 404, TORQUE ON/OFF 8/4K, SLIDE 3599-3511, 3631-3639, 3693-3703, 3725-3733, 3788-3802, 3818-3830, 3881-3894, 3913-3928, 3976-3988, 4007-4019, 4071-4081, 4165-4177, 4197-4205, 4260-4275, 4291-4306, 4354-4369==LOST 80 BBL MUD @ 4185, PUMPED LCM PILLS AND STOPPED LOSSES
	17:00 - 0:00	0.50	DRLPRO	02	D	Р		RIG SERVICE
4/20/2000		7.00	DRLPRO	02	D	Р		DRILL 4449-4772 = 323' = 46.1 FPH , MW 9.6#, VIS 38, ROT DRILL WOB 22, RPM 45, SPP ON/OFF 1850/1550, DIFF 250-300, SLIDE 4449-4464, 4607-4627, 4734-4747, WOB 15-25, SPP ON/OFF 1675/1550, DIFF 125, SPM 90, GPM 404, P/U-SO-ROT WT 145-112-131,
1/29/2009	0:00 - 13:30	13.50	DRLPRO	02	D	Р		DRILL 4772-5395 = 623' = 46.1 FPH, MW 9.8#, VIS 38, SPM 90, SPP 1550-1800, GPM 404, RPM 55, MOTOR RPM 64, TORQUE ON/OFF 6-8/3-4K, ST WT UP/DN/ROT 153-118-129, WOB 18, SLIDE 4828-4845, 4955-4967, TORQUE ON/OFF 8.5/4K, DIFF 250, WOB 22
	13:30 - 14:00	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	14:00 - 0:00	10.00	DRLPRO	02	D	Р		DRILL 5395-5773 = 378' = 37.8 FPH, WOB 22, RPM 55, TORQUE ON/OFF 8000/4000, SPM 90, GPM 404, MOTOR RPM 64, SPP ON/OFF 1950/1750, P/U-S/O-ROT WT 155-124-135, SLIDE 5407-5499, WOB 25, DIFF 175, MW 9.8#, VIS 41, SPM 90, GPM 404, SPP ON/OFF 1840-1610
1/30/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL 5773-5960 = 187' = 31.2 FPH, MW 9.8#, VIS 38
	6:00 - 7:30	1.50	DRLPRO	05	С	Р		CIRCULATE B/U PRIOR TO TRIP, BUILD & PUMP SLUG
	7:30 - 12:30	5.00	DRLPRO	06	Α	P		TRIP OUT, DRAG ON BOTTOM 8 STDS = +40-80K, POOH, L/D MUD MOTOR, CHANGE BITS
	12:30 - 16:30	4.00	DRLPRO	06	Α	Р		M/U NEW Q506 BIT & MOTOR 1.4 BENT SUB, ORIENT MWD TOOLS, TRIP IN HOLE, FILL PIPE @ SHOE, TRIP IN TO 5700, HIT BRIDGE, UNABLE TO PASS, CONNECT TOP DRIVE
	16:30 - 17:30	1.00	DRLPRO	03	E	P		WASH & REAM F/5700-5960, SPM 80, SPP 2000, RPM 20, TORQUE4000, WOB 0-5, P/U-S/O-ROT183-78-145
	17:30 - 0:00	6.50	DRLPRO	02	Α	Р		DRILL 5960-6200, MW 10.0#, VIS 40, WOB 16-18, TORQUE ON/OFF 8/5K, TD RPM 55, MOTOR RPM 64, SPM 90, GPM 404, SPP ON/OFF 2000/1770, DIFF 230, ST WT UP/DN/ROT 168-136-148K, ROP 25-55
1/31/2009	0:00 - 12:00	12.00	DRLPRO	02	D	Р		DRILL 6200-6705 = 505' = 42.1 FPH, MW 10.1#, VIS 43, TD RPM 60, TORQUE ON/OFF 10/4K, MOTOR RPM 72, ST WT P/U-S/O-ROT 173-137-149, WOB 18, ROP 35-70, SPM 100, GPM 450, SPP ON/OFF 2400/2190
	12:00 - 12:30	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	12:30 - 15:30	3.00	DRLPRO	02	D	Р		DRILL 6705-6811 = 106' = 35.3 FPH, MW 10.1#, VIS 43, TD RPM 60, TORQUE ON/OFF 10/4K, MOTOR RPM 72, ST WT P/U-S/O-ROT 176-141-155, WOB 18, ROP 25-40, SPM 100, GPM 450, SPP ON/OFF 2220/1970

11/30/2009 3:23:28PM

Operation Summary Report

Well: NBU 922-18K1BS (RED WELL) Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING Start Date: 12/8/2008 End Date: 2/8/2009 Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0 Level) MD From Phase Date Time Duration Code Sub P/U Operation Start-End (hr) Code (ft) Р 15:30 - 16:30 1.00 **DRLPRO** 02 SLIDE DRILL 6811-6823 = 12', 12 FPH, MW 10.1#, D VIS 43, WOB 20-35, DIFF 125, SPM 100, GPM 450, SPP ON/OFF 1970/2200, MM RPM 71, ST WT UP-DN-ROT 176-141-155 16:30 - 20:00 3.50 DRLPRO 02 Р DRILL 6823-6985 = 162' = 46.3 FPH. MW 10.1#. VIS D 49, TD RPM 60, TORQUE ON/OFF 10/7K, MOTOR RPM 72, ST WT P/U-S/O-ROT 176-148-162, WOB 21, ROP 25-40, SPM 100, GPM 450, SPP ON/OFF 2390-2230 20:00 - 0:00 DRLPRO Ζ REPAIR RIG, CHANGE ALL VALVES #1 PUMP, 4.00 08 B SEATS IN MODS 2 & 3, CHANGE ALL VALVES & SEATS MP #2 2/1/2009 0:00 - 1:30 1.50 DRLPRO 08 R Z REPAIR RIG-FINISH CHANGING SEATS & VALVES IN MUD PUMPS 1:30 - 7:30 6.00 DRLPRO 02 D P DRILL 6985-7190 = 205' = 34.2 FPH, MW 10.1# 44 VIS. WOB 22. TORQUE ON/OFF 9-11/8K, SPM 100. GPM 450, SPP ON/OFF 2240/2370, TD RPM 60, MM ROP 72, ST WT UP-DN-ROT 180-145-160, ROP 40-70 7:30 - 9:30 2.00 **DRLPRO** 02 D Р SLIDE DRILL 7190-7208 = 18', MW 10.2@, 43 VIS 43, WOB 21, TORQUE 8/3K, SPM 100, GPM 450, MM RPM 72, SPP ON-OFF 2150-2000, ST WT UP-DN-ROT 180-145-160, ROP 9 9:30 - 11:30 2.00 DRLPRO 02 D Р DRILL 7208-7285 = 77' = 38.5 FPH, MW 10.2#, VIS 44, TORQUE ON/OFF 11/8K, SPM 100, GPM 450. SPP ON/OFF 2400/2200, TD RPM 50-60, MM ROP 72, ST WT UP-DN-ROT 180-145-160, ROP 40-70 11:30 - 12:00 SERVICE RIG, CHANGE OUT 5 SHAKER 0.50 **DRLPRO** 07 Α **SCREENS** 12:00 - 0:00 DRILL 7285-7654 = 369' = 30.75 FPH, MW 10.4#, 12.00 DRLPRO 02 D P 47 VIS, WOB 20-22, TORQUE ON/OFF 9-12/8K, TD RPM 40-60, MM RPM 72, SPM 100, GPM 450, SPP ON/OFF 2550/2240, STR WT UP-DN-ROT 185-152-166, ROP 20-60 0:00 - 16:30 2/2/2009 16.50 DRLPRO 02 D P DRILL 7654-8136 = 482' = 29.2 FPH, MW 10.5, 43 VIS, WOB 20, TORQUE ON/OFF 12/8, SPM 95, GPM 426, SPP ON/OFF 2180/2020, TD RPM 40-60, MM RPM 68, ROP 30-50==SLIDE 7757-7765, WOB 17. P/U-S/O 184-151-166. SPP ON/OFF 2200/2150 16:30 - 17:00 0.50 DRLPRO 07 Α RIG SERVICE 17:00 - 0:00 7.00 DRLPRO 02 D Р DRILL 8136-8325 = 189' = 37.8 FPH, MW 10.5#, VIS 41, WOB 18-20, TORQUE ON/OFF 13/9, SPM 95, GPM 426, SPP ON/OFF 2340/2210, RD RPM 40-60, MM RPM 68, ST WT P/U-S/O-ROT 198-165-180 2/3/2009 0:00 - 10:30 10.50 DRLPRO 02 D Þ DRILL 8385-8695 = 310' = 29.5 FPH, WOB 18, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2340/2210, P/U-S/O-ROT WT 210-165-179, MW 10.6, VIS 45 10:30 - 11:00 0.50 DRLPRO 02 D SLIDE DRILL 8695-8705 = 10', WOB 18-50. TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM 426, MM RPM 68, MW 10.6# VIS 42 11:00 - 13:30 2.50 **DRLPRO** 02 D DRILL 8705-8795 = 90' = 180 FPH, MW 10.6# VIS 44, WOB 18-22, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187 13:30 - 15:00 Р SLIDE DRILL 8795-8810 = 15', WOB 18-50, 1.50 DRLPRO 02 D

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TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM

426, MM RPM 68, MW 10.6# VIS 43

Operation Summary Report

 Well: NBU 922-18K1BS (RED WELL)
 Spud Date: 12/30/2008

 Project: UTAH-UINTAH
 Site: NBU 922-18L PAD
 Rig Name No: H&P 298/298, H&P 298/298

 Event: DRILLING
 Start Date: 12/8/2008
 End Date: 2/8/2009

						-т		11g 14ame 140. Flat 250/250, Flat 250/250
vent: DRILLI	NG		Start Da	te: 12/8/	2008			End Date: 2/8/2009
ctive Datum:	RKB @4,925.00ft	above Mear	n Sea	UWI: N	IE/SW/0	/9/S/22/E	/18/0/0/6/PM/S	/2,551.99/W/0/1,214.00/0/0
.evel)	_	·						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:00 - 16:00	1.00	DRLPRO	02	D	Р		DRILLING 8810-8889 = 79' = MW 10.6# VIS 44, WOB 18-22, TORQUE ON/OFF 13/9, TD RPM 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187
	16:00 - 16:30	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	16:30 - 18:00	1.50	DRLPRO	02	D	P		SLIDE DRILL 8889-8900 = 11' WOB 18-50, TORQUE 2, SPP ON/OFF 2180/2130, SPM 95, GPM 426, MM RPM 68, MW 10.6#, VIS 41
	18:00 - 20:00	2.00	DRLPRO	02	D	Р		DRILL 8900-8985 = 85' = 42.5 FPH, WOB 18-22, MW 10.6# VIS 44, TORQUE ON/OFF 13/9, TD RPN 60, MM RPM 68, SPM 95, GPM 426, SPP OF/OFF 2500/2130, P/U-S/O-ROT WT 235-130-187
	20:00 - 21:30	1.50	DRLPRO	05	С	Р		CCH FOR BIT TRIP, PUMP LCM SWEEP, BUILD SLUG
2/4/0000	21:30 - 0:00	2.50	DRLPRO	06	A	P		TRIP OUT FOR BIT & MOTOR CHANGE, DRAG ON BOTTOM +100K, BLOW DOWN KELLY, POOH
2/4/2009	0:00 - 3:00 3:00 - 7:00	3.00	DRLPRO	06 06	A	P		TRIP OUT BIT #2, L/D MUD MOTOR
	7:00 - 7:30	4.00 0.50	DRLPRO DRLPRO	06 06	A K	P P		M/U BIT#3, MUD MOTOR, TEST MUD MOTOR, TRIP IN, FILL @ SHOE, CIH TO 6930' INSTALL ROTATING HEAD ,FILL PIPE
	7:30 - 8:30	1.00	DRLPRO	06	A	P		TRIP IN HOLE TO 8930'
	8:30 - 9:00	0.50	DRLPRO	03	D	P		W & R 54' TO BTM
	9:00 - 10:00	1.00	DRLPRO	02	D	P		DRILLING 8985-9000=15' WOB,18 MW 10.8VIS
		1.00	DALI NO	UZ	Ь			43,RPM 50 MM 68,TQ ON/OFF 13/9,SPP ON/OFF 2360/2160,SPM 95,GPM 426,PU/SO/ROT 240/130/194
	10:00 - 11:00	1.00	DRLPRO	02	D	Р		SLIDE DRILL 9000-9015 WOB 18/55,MW 10.8 VIS 43,RPM MM 68,SPP ON/OFF2270/2167
	11:00 - 12:30	1.50	DRLPRO	02	D	P		DRILLING 9015-9079=64' WOB,18 MW 10.8,VIS 43,RPM 50 MM 68,TQ ON/OFF 13/9,SPP ON/OFF 2360/2160,SPM 95,GPM 426,PU/SO/ROT 240/130/194
	12:30 - 15:00	2.50	DRLPRO	02	D	Р		SLIDE DRILL 9079-9099 WOB 18/55, PU/SO 240/140, MW 10.8 VIS 43,RPM MM 68,SPP ON/OFF2270/2167
	15:00 - 16:30	1.50	DRLPRO	02	D	Р		DRILLING 9099-9173=74 WOB 18,MW 10.8,VIS 43 RPM 50 MM 68,TQ ON/OFF 14/6,SPP ON/OFF2450/2124,SPM 95,GPM 426,PU/SO/ROT 240/140/194
	16:30 - 17:00	0.50	DRLPRO	07	Α	Р		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D	Р		DRILLING 9173-9305 =132=18.8 FPH WOB 14-22,MW 10.9,VIS 46 RPM 40-60 MM 68,TQ ON/OFF 14/6,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/1165/194
2/5/2009	0:00 - 4:30	4.50	DRLPRO	02	D	Р		DRILLING 9305-9365=60=13.3FPH,WOB 22 MW 10.9VIS 44,RPM 50,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/165/195
	4:30 - 6:00	1.50	DRLPRO	05	С	Р		CBU,MIX & PUMP SLUG,CHECK FLOW
	6:00 - 7:00	1.00	DRLPRO	06	Α	Ρ		TOH TO 8065',LOST POWER TO DWKS
	7:00 - 7:30	0.50	DRLPRO	80	В	Р		TROUBLE SHOOT PLC,RE BOOT COMPUTER,& CALIBRATE
	7:30 - 13:00	5.50	DRLPRO	06	Α	Р		TOH,X/O BIT & M MTR
	13:00 - 15:00	2.00	DRLPRO	06	Α	Р		TIH TO 2750' ,BREAK CIRC,BLOW DOWN KELLY
	15:00 - 16:30	1.50	DRLPRO	09	Α	P		SLIP & CUT DRILL LINE
	16:30 - 19:30	3.00	DRLPRO	06	Α	P		TIH TO 6000',BREAK CIRC,CIH TO 9275
	19:30 - 20:00	0.50	DRLPRO	03	D	Р		W & R 90' TO BTM

11/30/2009

3:23:28PM

Operation Summary Report

Date	Time	Duration	Phase	Code	Sub	P/U	MD From	Operation
	Start-End	(hr)			Code		(ft)	
	20:00 - 20:30	0.50	DRLPRO	02	D	Р		DRILLING 9365-9385,WOB 8-15 MW111.0.VIS 48,RPM 45,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT 235/165/204
	20:30 - 22:30	2.00	DRLPRO	02	D	Р		SLIDE DRILL 9385-9404 WOB 20-30 MW 11.0 VIS 46,RPM M MTR 68,SSP ON OFF 2475/2250,GPM 426
	22:30 - 0:00	1.50	DRLPRO	02	D	Р		DRILLING 9404-9457,WOB 18 MW11.1.VIS 45,RPM 45,MM 68,TQ ON/OFF15/12,SPP ON/OFF2450/2200,SPM 95,GPM 426,PU/SO/ROT
	0.00				_	_		235/170/204
2/6/2009	0:00 - 3:00	3.00	DRLPRO	02	D	Р		SLIDE DRILL 9457-9480=23=7.6 FPH WOB 35-45 RPM MM 68,SPM 95,GPM 426,SPP ON/OFF 2550/2400 MW 11.1 VIS 43,LOSING MUD 50 BBLS PUMP LCM SWEEPS,BYPASS SHAKERS @9475'
	3:00 - 15:30	12.50	DRLPRO	02	D	Р		DRILLING 9480-9880= 400=32 FPH WOB 18,MW 11.6 VIS 43,LCM 5% RPM 45 MM 65, SPM 90,GPM 405,PU/SO/RT 250/165/204TOTAL MUD LOSS 120 BBLS TD 9880'@ 1530 HRS 02/06/2009
	15:30 - 17:00	1.50	DRLPRO	05	С	Р		CCH, F/ WIPER TRIP
	17:00 - 19:30	2.50	DRLPRO	06	Ε	Р		WIPER TRIP TO 8000'
	19:30 - 21:00	1.50	DRLPRO	05	С	Ρ		CCH RU TO LDDS
	21:00 - 0:00	3.00	DRLPRO	06	В	Р		SM W/ WEATHERFORD & RIG CREWS LDDS
2/7/2009	0:00 - 5:30	5.50	DRLPRO	06	В	Ρ		LDDS,PULL WEAR BUSHING
	5:30 - 11:30	6.00	DRLPRO	11	G	Р		SM RU HALLIBURTON RUN TRIPLE COMBO,LOGGERS TD 9883',RD SAME
	11:30 - 20:00	8.50	DRLPRO	12	Α	Р		SM RU WEATHERFORD TRS RUN 236 JTS OF 41/2,11.6# I-80 LTC CSG
	20:00 - 21:30	1.50	DRLPRO	05	Α	Ρ		LAND CSG W/60K,RU BJ CIRC CSG
	21:30 - 0:00	2.50	DRLPRO	12	E	Р		SM W/ BJ,TEST PUMP & LINES,TO 4500#PUMP 20 BBLS MUD CLEAN,442 SKS(255.8 BBLS) LEAD @ 11.1#,1290 SKS (301BBLS) TAIL@ 14.3# SHUT DOWN WASH PUMP& LINES,DROP TOP PLUG DISPLACE W/ 152.8 BBLS FW BUMP PLUG W/ 3450 PSI 500 OVER DIFF PRESS,FLOATS OK,LOST RETURNS START OF DISPLACEMENT,NO CMT TO SURFACE
2/8/2009	0:00 - 2:30	2.50	DRLPRO	12	Α	P		LD LANDING JT & SETTING TOOL,SET PACKOFF & TEST TO 5000
	2:30 - 8:30	6.00	DRLPRO	14	Α	Р		NDBOPE,CLEAN MUD TANKS,RELEASE RIG TO NBU-922-18F4CS@0830 HRS 02/08/2009

11/30/2009 3:23:28PM

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			C	perat	ion S	umm	ary Repoi					
Well: NBU 922	-18K1BS (RED W	ELL)					Spud Date: 1	2/30/2008				
Project: UTAH	-UINTAH		Site: NE	3U 922-1	8L PAD			Rig Name No: MILES 2/2				
Event: COMPL	Start Da	ate: 10/20)/2009		····	End Date: 11/4/2009						
Active Datum: Level)	ve Datum: RKB @4,925.00ft (above Mean Sea el)					UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation				
10/21/2009	7:00 - 7:30	0.50	COMP	48		Р		JSA- RUSU ON NEW BASE BEAM.				
10/22/2009	7:30 - 18:00 7:00 - 7:30	10.50 0.50	COMP	31 48	l	P P		ROADED TO LOC 10/20/09. SPOT NEW BASE BEAM. RUSU. ND WH. NU BOP. SPOT EQUIP. RU FLOOR AND TBG EQUIP. MU 3-7/8 BIT, BIT SUB. RIH AS MEAS AND PU JTS 2-3/8" L-80 TBG. TAG AT 9806' W/ 309-JTS IN. JSA- D/O FC. LD TBG.				
	7:30 - 15:30	8.00	COMP	44	A	Р		RU PRW SWIVEL W/ #309 AND EST REV CIRC. C/O CMT FRO 9806' TO FC AT 9832'. D/O FC AND 10' HARD CMT TO 9842' W/ 310-JTS 2-3/8" L-80 TBG IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 5-JTS. P-TEST TO 3000#. GOOD. CONT POOH AS LD TBG. LD BIT AND BIT SUB. RD FLOOR. ND BOP. NU FRAC VALVES. RDSU.				
10/24/2009	7:00 - 10:00	3.00	COMP	47	С	Р		X-OUT FMC TBG HEAD DUE T/TBG HEAD IS THE SAME BATCH AS ON THE 18K2 WELL. ((THE ONE THAT PARTED.))				
10/26/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. SIM OPS.				
	7:30 - 17:00	9.50	COMP	37	В	Р		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000#. GOOD TEST. BLEED OFF PSI. RU ON NEXT WELL. MIRU CUTTER'S WL. STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF F/ 9810'-14', 4 SPF, 16 HOLES. 9792'-94', 3 SPF, 6 HOLES. 9728'-30', 3 SPF, 6 HOLES. 9649'-54', 3 SPF, 15 HOLES. POOH. SWI. WINTERIZE WELL HEAD.				

11/30/2009 3:24:15PM

Operation Summary Report

Vell: NBU 922	2-18K1BS (RED WE	ELL)					Spud Date: 12	2/30/2008
Project: UTAH	-UINTAH		Site: NE	BU 922-1	8L PAD			Rig Name No: MILES 2/2
event: COMPL	ETION	· · · · · · · · · · · · · · · · · · ·	Start Da	ate: 10/20	/2009			End Date: 11/4/2009
Active Datum: .evel)	RKB @4,925.00ft (above Mean	Sea	UWI: N	IE/SW/0/	/9/S/22/E	/18/0/0/6/PM/S	/2,551.99/W/0/1,214.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/27/2009	7:00 - 23:59	16.98	COMP	36	В	P		STG 1) OPEN WELL 1109# BEG PUMPING, BRK @ 3930# @ 6.4 BPM. SD ISIF 3103#, FG .75. BEG FRAC. EST INJT RT @ 51.4 BPM @ 5453# = 100% PERF'S OPEN. PUMP 44,977# 30/50 WHITE & TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2981# FG .74. SWI. X-OVER T/ GREEN. STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9628' P/U PERF F/ 9596'-98', 4 SPF, 8 HOLES. 9575'-78', 4 SPF, 12 HOLES.
								9494'-96', 4 SPF, 8 HOLES. 9450'-52', 3 SPF, 6 HOLES. 9366'-68', 3 SPF, 6 HOLES. POOH. OPEN WELL 2680#. BEG PUMPING, BRK @ 3080# @ 6.4 BPM. SD ISIP 2680# FG .71. BEG FRAC, EST INJT RT @ 51.4 BPM @ 5700# =81% PERFS OPEN. PUMP 40,969# 30/50 WHITE & TAIL IN W/ 5,000# TLC. SD ISIP 2970# FG .74. SWI. X-OVER T/ GREEN WELL.
								STG 3)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90,120 & 180 DEG PHASING. RIH SET CBP @ 9,354' P/U PERF F/ 9320'-24', 4 SPF, 16 HOLES. 9268'-72', 3 SPF, 12 HOLES. 9086'-92', 2 SPF, 12 HOLES. POOH. WHP 2,356 PSI, BRK 3,556 PSI @ 6.4 BPM. ISIP 2,767 PSI, FG .74. PUMP 100 BBLS @ 51.5 BPM @ 5,460 PSI = 100% HOLES OPEN. MP 5,844 PSI, MR 51.7 BPM, AP 5,060 PSI, AR 47.5 BPM, ISIP 2,706 PSI, FG .72, NPI -61 PSI. PMP 836 BBLS SW & 25,905 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 30,905 LBS,
								STG 4) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 9,060' & PERF 9,026' - 30' 4SPF, 8,964 - 70' 3SPF, 8,902' - 04' 3SPF, 40 HOLES WHP 2,218 PSI, BRK 2,841 PSI @ 6.3 BPM. ISIP 2,557 PSI, FG .72. PUMP 100 BBLS @ 51.5 BPM @ 4,950 PSI = 100% HOLES OPEN. MP 5,567 PSI, MR 51.7 BPM, AP 4,614 PSI, AR 47.9 BPM, ISIP 2,882 PSI, FG .75, NPI 325 PSI. PMP 879 BBLS SW & 27,239 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,239 LBS,
								STG 5) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,862' & PERF 8,828' - 32' 3SPF, 8,790 - 92' 4SPF, 8,726' - 28' 4SPF, 8,654' - 56' 3SPF, 8,618' - 20' 3SPF, 40 HOLES. WHP 875 PSI, BRK 3,554 PSI @ 6.5 BPM. ISIP 2,246 PSI, FG .69.

11/30/2009 3:24:15PM

US ROCKIES REGION Operation Summary Report Well: NBU 922-18K1BS (RED WELL) Spud Date: 12/30/2008 Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: MILES 2/2 **Event: COMPLETION** Start Date: 10/20/2009 End Date: 11/4/2009 UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0 Active Datum: RKB @4,925.00ft (above Mean Sea Level) Date Time Duration Phase Code P/U MD From Sub Operation Start-End (hr) Code (ft) PUMP 100 BBLS @ 56.3 BPM @ 5,450 PSI = 76% HOLES OPEN. MP 5,509 PSI, MR 56.6 BPM, AP 4,666 PSI, AR 54 BPM, ISIP 2,662 PSI, FG .74, NPI 416 PSI. PMP 3,306 BBLS SW & 133,872 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 138,872 LBS, STG 6) PU 4 1/2" HAL CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH SET CBP @ 8,512' & PERF 8,478' - 82' 3SPF, 8,424' - 30' 3SPF, 8,356' - 60' 3SPF, 42 HOLES. SWI SDFN. 10/28/2009 6:30 - 7:00 0.50 COMP Р 48 HSM. FRACING & PERFORATING

11/30/2009 3:24:15PM

3

	2-18K1BS (RED WE	LL)					Spud Date: 1	2/30/2008
Project: UTAF			Site: NE	BU 922-18	BL PAD			Rig Name No: MILES 2/2
vent: COMP				te: 10/20				End Date: 11/4/2009
.evel)	: RKB @4,925.00ft (a					/9/S/22/E	/18/0/0/6/PM/S	/2,551.99/W/0/1,214.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 15:00	8.00	COMP	36	В	P		STG 6) WHP 1577 PSI, BRK 3775 PSI @ 6.4 BPN ISIP 1705 PSI, FG .63. PUMP 100 BBLS @ 51.4 BPM @ 4800 PSI = 62% HOLES OPEN. MP 5368 PSI, MR 51.8 BPM, AP 4417 PSI, AR 47. BPM, ISIP 2693 PSI, FG75, NPI 988 PSI. PMP 1461 BBLS SW & 54,684 LBS OF 30/50 SND 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 59,684 LBS,
								STG 7)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 2 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RI SET CBP @ 8180' P/U PERF F/8146'-50', 4 SPF, 16 HOLES. 8104'-06', 4 SPF, 8 HOLES. 8064'-68', 3 SPF, 12 HOLES. 7956'-58', 3 SPF, 6 HOLES. POOH. WHP 900 PSI, BRK 2643 PSI @ 6.4 BPM. ISIP 1634 PSI, FG .63. PUMP 100 BBLS @ 51.4 BPM @ 4300 PSI = 79% HOLES OPEN. MP 4969 PSI, MR 51.7 BPM, AP 3891 PSI, AR 43. BPM, ISIP 2383 PSI, FG .73, NPI 749 PSI. PMP 1461 BBLS SW & 17,965 LBS OF 30/50 SND 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 22,965 LBS, SWI. X-OVER T/ GREEN WELL.
10/30/2009	7:00 - 7:30	0.50	COMP	48		Ρ		STG 8)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 2 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7888' P/U PERF F/ 7852'-58', 4 SPF, 24 HOLES. 7820'-24', 4 SPF, 16 HOLES. POOH. WHP 610 PSI, BRK 3229 PSI @ 6.4 BPM. ISIP 2221 PSI, FG .71. PUMP 100 BBLS @ 51.4 BPM @ 4900 PSI = 81% HOLES OPEN. MP 5219 PSI, MR 51.8 BPM, AP 4293 PSI, AR 45. BPM, ISIP 2750 PSI, FG .78, NPI 529 PSI. PMP 774 BBLS SW & 25,345 LBS OF 30/50 SND 85,000 LBS OF 20/40 RESIN SND. TOTAL PROP 30,345 LBS, SWI. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7770'. POOH, SWI. FINISH PAD. RDMO CUTTER'S WL & SCHLUMBERGER FRAC SERV. GREAT JOB BY BOTH. DRILLING PLUGS
	7:30 - 7:30	0.00	COMP	44		P		MIRU, ND FRAC VALVE, NU BOP'S, NU MILL, POBS, XN SN, PU TBG, RIH WITH TBG, TAG 1S' PLUG @ 7770' 0' SAND 8 MIN 200' KICK 2ND PLUG 7888' 10' SAND 20 MIN 400' KICK 3RD PLUG 8180' 30' SAND 10 MIN 600' KICK TURN WELL TO FBC FOR NIGHT.

11/30/2009 3:24:15PM

Operation Summary Report

Well: NBU 922-18K1BS (RED WELL) Spud Date: 12/30/2008 Project: UTAH-UINTAH Site: NBU 922-18L PAD Rig Name No: MILES 2/2 Event: COMPLETION Start Date: 10/20/2009 End Date: 11/4/2009 Active Datum: RKB @4,925.00ft (above Mean Sea UWI: NE/SW/0/9/S/22/E/18/0/0/6/PM/S/2,551.99/W/0/1,214.00/0/0 Level) Date Time Duration Code Phase P/U Sub MD From Operation (hr) Start-End Code (ft) 7:00 - 7:30 10/31/2009 COMP 0.50 48 Ρ **DRILL PLUGS** 7:30 - 7:30 0.00 COMP 44 Ρ **DRILL PLUGS** PLUG #4 8512' 30' SAND 10 MIN 700# KICK PLUG #5 8862' 20' SAND 10 MIN 200# KICK PLUG #6 9060' 20' SAND 8 MI9N 300# KICK PLUG #7 9366' 15' SAND 10 MIN 200# KICK PLUG #8 9628' 20' SAND 15 MIN 200# KICK RIH TO 9831' TAG, 310 JTS, LD 17 JTS TO 9321' LAND TBG. ND BOP'S, NU WH, PUMP OFF BIT SUB.1500# TURN TO FBC 1:00 PM. RDMO TO **BLUE WELL** 11/1/2009 7:00 -33 Α 7 AM FLBK REPORT: CP 2825#, TP 1725#, 20/64" CK, 45 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3080 **BBLS LEFT TO RECOVER: 7702** 10:30 -**PROD** 50 WELL TURNED TO SALES @ 1030 HR ON 11/01/2009 - 1300 MCFD, 1080 BWPD, FTP 1850#, CP 3200#, CK 20/64" 11/2/2009 7:00 -7 AM FLBK REPORT: CP 3350#, TP 1975#, 20/64" 33 CK, 32 BWPH, TRACE SAND, 1320 GAS TTL BBLS RECOVERED: 4013 BBLS LEFT TO RECOVER: 6769 11/3/2009 7:00 -33 7 AM FLBK REPORT: CP 3000#, TP 1950#, 20/64" Α CK, 28 BWPH, TRACE SAND, 1341 GAS TTL BBLS RECOVERED: 4731 **BBLS LEFT TO RECOVER: 6051** 11/4/2009 7:00 -7 AM FLBK REPORT: CP 2775#, TP 1775#, 20/64" 33 Α CK,20 BWPH, TRACE SAND, 1875 GAS TTL BBLS RECOVERED: 5478 **BBLS LEFT TO RECOVER: 573** 7:00 -33 Α 7 AM FLBK REPORT: CP 2725#, TP 1750#, 20/64" CK, 20 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5404 **BBLS LEFT TO RECOVER: 5378**

11/30/2009

3:24:15PM



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27) NBU 922-18 PAD EFKL NBU 922-18K1BS

1

Survey: FINAL

Standard Survey Report

08 April, 2009





0

800

1600

2400

3200

4000

4800

5600

8800

9600

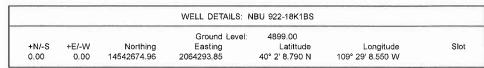
10400

9826

-900

NBU 922-18K1BS **UINTAH COUNTY, UTAH (nad 27)** SEC 18 T9S R22E 2551' FSL, 1214' FWL 40° 2' 8.790 N 109° 29' 8.550 W





SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
2840.00	3,61	87.36	2832,76	20,88	184.95	0.00	0.00		-
2940.00	4.19	83.42	2932,46	21.93	192.57	0.00	0.00		
3582.26	17.03	84.39	3562.41	33,87	309,99	2.00	1.28		
3738.24	17.03	84.39	3711.55	38,34	355.46	0.00	0.00		
5441.67	0.00	0.00	5390.00	62.92	605,62	1.00	180.00		
9871.67	0.00	0.00	9820,00	62,92	605.62	0.00	0.00		PBHL-K1B\$

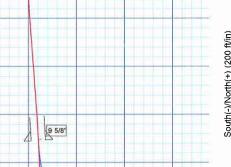
FORMATION TOP DETAILS



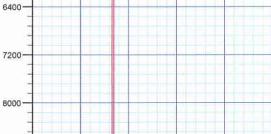
KB ELEVATION @ 4925.50ft (HP 298)

GRD ELEV: 4899.00









900

EXT.TD

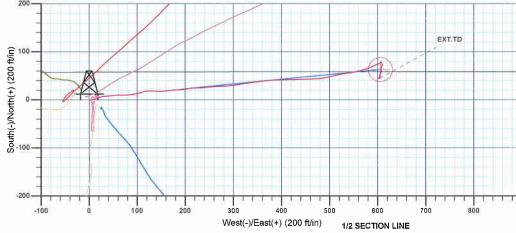
1800

2700

3600

TVDPath MDPath Formation

5033.00 5084.44 WASATCH 7766.00 7817.67 MESAVERDE



WELLBORE TARGET DETAILS (LAT/LONG) +N/-S +E/-W Latitude Longitude

40° 2' 9.310 N 109° 29' 0.750 W

Circle (Radius: 25.00)

Survey: Survey #1 (NBU 922-18K1BS/1) MD Inc TVD +N/-S +E/-W DLeg TFace VSec Azi 9880.000.63 156.80 9826.20 44.58 604.18 0.00 0.00 605.55

605.62

TVD

62.92

9820.00

PBHL-K1BS

Survey: Survey #1 (NBU 922-18K1BS/1)

Created Rv. Robert H. Scott



Survey Report



Company: Project:

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Site:

NBU 922-18 PAD EFKL

Well: Wellbore: NBU 922-18K1BS

Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well NBU 922-18K1BS

KB ELEVATION @ 4925.50ft (HP 298)

KB ELEVATION @ 4925.50ft (HP 298)

Minimum Curvature

Mean Sea Level

EDM 2003.21 Single User Db

Project

Site

UINTAH COUNTY, UTAH (nad 27),

Map System:

Universal Transverse Mercator (US Survey Fee System Datum:

Geo Datum: Map Zone:

NAD 1927 - Western US

Zone 12N (114 W to 108 W)

Site Position:

NBU 922-18 PAD EFKL, SEC 18 T9S R22E

From:

Lat/Long

Northing: Easting:

14,542,660.22 ft 2,064,319.77 ft

Latitude:

Longitude:

40° 2' 8.640 N

Position Uncertainty:

Slot Radius:

0.00 in

Grid Convergence:

109° 29' 8.220 W

0.97°

Well

NBU 922-18K1BS.

Well Position

+N/-S

+E/-W

0.00 ft 0.00 ft

0.00 ft

Northing: Easting:

14,542,674.96 ft 2,064,293.85 ft

Latitude: Longitude: 40° 2' 8,790 N

Position Uncertainty

0.00 ft

Wellhead Elevation:

ft

Ground Level:

109° 29' 8.550 W 4,899.00 ft

Wellbore

1

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

BGGM2007

12/29/2008

11.42

65.95

52,583

Design

1

Audit Notes:

Version:

1.0

Phase:

ACTUAL

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD)

(ft) 0.00 +N/-S (ft) 0.00

+E/-W (ft) 0.00

Direction (°)

84.07

Survey Program

Date 4/8/2009

9,880.00 Survey #1 (1)

From (ft)

172.00

То

(ft) Survey (Wellbore) **Tool Name**

MWD

Description

MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.00	0.54	104.48	172.00	-0.20	0.78	0.76	0.31	0.31	0.00
234.00	0.56	111.30	233.99	-0.39	1.35	1.30	0.11	0.03	11.00
326.00	1.06	51.42	325.99	-0.02	2.43	2.42	1.00	0.54	-65.09
418.00	1.31	85.55	417.97	0.59	4.15	4.19	0.80	0.27	37.10
510.00	2.00	91.05	509.93	0.65	6.80	6.83	0.77	0.75	5.98
602.00	3.19	71.30	601.83	1.44	10.83	10.92	1.60	1.29	-21.47
695.00	3.69	69.05	694.67	3.34	16.08	16.34	0.56	0.54	-2.42
787.00	4.50	71.80	786.43	5.52	22.27	22.72	0.91	0.88	2.99
879.00	4.81	84.67	878.13	7.01	29.54	30.11	1.18	0.34	13.99
971.00	5.44	82.67	969.76	7.92	37.71	38.32	0.71	0.68	-2.17
1,064.00	4.63	88.42	1,062.40	8.59	45.83	46.47	1.03	-0.87	6.18
1,156.00	5.06	81.80	1,154,07	9.27	53.56	54.23	0.77	0.47	-7.20



Survey Report



Company: ANADARKO PETROLEUM CORP.

Project: UINTAH COUNTY, UTAH (nad 27)

 Site:
 NBU 922-18 PAD EFKL

 Well:
 NBU 922-18K1BS

Wellbore:

Design:

Local Co-ordinate Reference:

 TVD Reference:
 KB ELEVATION @ 4925.50ft (HP 298)

 MD Reference:
 KB ELEVATION @ 4925.50ft (HP 298)

Well NBU 922-18K1BS

North Reference:

Survey Calculation Method: Minimum Curvature

Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,251.00	4.38	90.42	1,248.75	9.84	61.33	62.02	1.03	-0.72	9.07
1,346.00	4.94	93.42	1,343.44	9.57	69.04	69.66	0.64	0.59	3.16
1,440.00	4.69	84.30	1,437.11	9.71	76.91	77.50	0.86	-0.27	-9.70
1,535.00	5.38	84.92	1,531.74	10.49	85.21	85.84	0.73	0.73	0.65
1,630.00	4.98	79.00	1,626.35	11.67	93.69	94.40	0.70	-0.42	-6.23
1,725.00	5.13	79.67	1,720.98	13.22	101.92	102.74	0.17	0.16	0.71
1,819.00	5.69	68.92	1,814.57	15.65	110.40	111.43	1.23	0.60	-11.44
1,913.00	3.38	82.05	1,908.27	17.71	117.49	118.70	2.68	-2.46	13.97
2,008.00	4.19	89.80	2,003.06	18.11	123.74	124.95	1.01	0.85	8.16
2,103.00	4.44	90.67	2,097.79	18.08	130.89	132.05	0.27	0.26	0.92
2,198.00	4.88	94.42	2,192.48	17.72	138.59	139.68	0.56	0.46	3.95
2,293.00	5.44	88.54	2,287.09	17.53	147.12	148.15	0.81	0.59	-6.19
2,387.00	4.00	86.67	2,380.77	17.83	154.85	155.86	1.54	-1.53	-1.99
2,482.00	3.94	82.67	2,475.55	18.44	161.40	162.44	0.30	-0.06	-4.21
2,577.00	3.63	79.67	2,570.34	19.40	167.59	168.70	0.39	-0.33	-3.16
2,672.00	3.63	88.55	2,665.15	20.01	173.56	174.69	0.59	0.00	9.35
2,767.00	4.19	83.42	2,759.93	20.48	180.01	181.16	0.69	0.59	-5.40
2,829.00	3.69	87.05	2,821.78	20.85	184.25	185.42	0.90	-0.81	5.85
9 5/8" 2,840.00 2,892.00 2,986.00 3,081.00	3.61 3.25 3.12 2.94	87.36 89.05 84.65 87.05	2,832.76 2,884.66 2,978.52 3,073.39	20.88 20.98 21.26 21.63	184.95 188.06 193.27 198.28	186.12 189.22 194.44 199.45	0.72 0.72 0.29 0.23	-0.70 -0.70 -0.14 -0.19	2.86 3.24 -4.68 2.53
3,265.00	4.00	73.05	3,257.05	23.74	209.13	210.47	0.73	0.58	-7.61
3,360.00	6.69	91.42	3,351.63	24.57	217.84	219.21	3.32	2.83	19.34
3,455.00	9.25	86.92	3,445.71	24.85	230.99	232.33	2.77	2.69	-4.74
3,549.00	11.49	83.71	3,538.17	26.28	247.85	249.24	2.46	2.38	-3.41
3,643.00	13.38	88.05	3,629.96	27.67	268.03	269.45	2.24	2.01	4.62
3,738.00	13.94	85.30	3,722.28	28.99	290.42	291.86	0.90	0.59	-2.89
3,831.00	14.56	79.42	3,812.42	32.05	313.07	314.71	1.69	0.67	-6.32
3,926.00	15.69	82.42	3,904.13	35.94	337.55	339.45	1.45	1.19	3.16
4,021.00	17.06	84.17	3,995.27	39.05	364.14	366.23	1.53	1.44	1.84
4,115.00	16.31	86.80	4,085.32	41.18	391.04	393.20	1.13	-0.80	2.80
4,210.00	15.63	89.05	4,176.65	42.14	417.16	419.28	0.97	-0.72	2.37
4,304.00	16.13	89.55	4,267.06	42.45	442.87	444.89	0.55	0.53	0.53
4,399.00	16.25	86.67	4,358.30	43.33	469.34	471.30	0.85	0.13	-3.03
4,494.00	15.13	77.05	4,449.77	46.88	494.70	496.89	2.98	-1.18	-10.13
4,589.00	12.13	77.17	4,542.08	51.88	516.52	519.11	3.16	-3.16	0.13
4,684.00	12.00	83.42	4,634.99	55.23	536.06	538.90	1.38	-0.14	6.58
4,778.00	10.64	76.95	4,727.16	58.30	554.22	557.28	1.98	-1.45	-6.88
4,873.00	7.06	74.17	4,821.02	61.88	568.39	571.74	3.79	-3.77	-2.93
4,968.00	5.50	71.72	4,915.44	64.90	578.33	581.94	1.67	-1.64	-2.58
5,063.00	4.44	67.44	5,010.09	67.74	586.05	589.91	1.18	-1.12	-4.51
5,156.00	3.88	66.80	5,102.84	70.36	592.26	596.36	0.60	-0.60	-0.69
5,250.00	2.94	65.67	5,196.67	72.61	597.38	601.69	1.00	-1.00	-1.20
5,345.00	3.02	64.29	5,291.54	74.69	601.86	606.35	0.11	0.08	-1.45
5,439.00	1.63	45.55	5,385.47	76.71	605.04	609.73	1.67	-1.48	-19.94
5,534.00	0.56	85.42	5,480.45	77.69	606.47	611.25	1.32	-1.13	41.97
5,628.00	0.25	119.30	5,574.45	77.62	607.11	611.88	0.40	-0.33	36.04
5,723.00	0.69	140.67	5,669.44	77.08	607.65	612.36	0.49	0.46	22.49
5,817.00	0.88	137.67	5,763.43	76.11	608.50	613.10	0.21	0.20	-3.19
5,912.00	0.81	173.67	5,858.42	74.90	609.06	613.54	0.55	-0.07	37.89
6,005.00	0.99	170.06	5,951.41	73.46	609.27	613.60	0.20	0.19	-3.88
6,100.00	1.38	178.92	6,046.39	71.51	609.44	613.56	0.45	0.41	9.33



Survey Report



Company:

ANADARKO PETROLEUM CORP.

Project:

UINTAH COUNTY, UTAH (nad 27)

Site: Well: NBU 922-18 PAD EFKL NBU 922-18K1BS

Wellbore:

1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well NBU 922-18K1BS

KB ELEVATION @ 4925.50ft (HP 298)

KB ELEVATION @ 4925.50ft (HP 298)

3rid

Minimum Curvature

EDM 2003.21 Single User Db

Survey

Design:

fleasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,195.00	0.44	244.42	6,141.38	70.20	609.13	613.12	1.33	-0.99	68.95
6,289.00	0.50	238.54	6,235.38	69.83	608.45	612.41	0.08	0.06	-6.26
6,383.00	0.44	212.17	6,329.37	69.32	607.91	611.82	0.24	-0.06	-28.05
6,477.00	0.56	194.67	6,423.37	68.57	607.60	611.43	0.21	0.13	-18.62
6,571.00	0.88	193.17	6,517.36	67.42	607.32	611.04	0.34	0.34	-1.60
6,666.00	1.00	188.67	6,612.35	65.89	607.03	610.59	0.15	0.13	-4.74
6,761.00	1.13	180.05	6,707.33	64.13	606.90	610.28	0.22	0.14	-9.07
6,856.00	0.94	170.30	6,802.32	62.43	607.03	610.24	0.27	-0.20	-10.26
6,951.00	0.69	168.42	6,897.31	61.10	607.28	610.34	0.26	-0.26	-10.20
7,046.00	0.75	175.55	6,992.30	59.92	607.44	610.38	0.11	0.06	7.51
7,140.00	0.91	167.30	7,086.29	58.58	607.66	610.46	0.21	0.17	-8.78
7,235.00	0.19	251.80	7,181.29	57.79	607.67	610.39	0.96	-0.76	88.95
7,330.00	0.44	232.67	7,276.29	57.52	607.23	609.93	0.28	0.26	-20.14
7,425.00	0.69	222.55	7,371.28	56.88	606.56	609.19	0.28	0.26	-10.65
7,519.00	0.38	203.30	7,465.28	56.18	606.05	608.61	0.38	-0.33	-20.48
7,613.00	0.25	178.30	7,559.28	55.68	605.93	608.44	0.20	-0.14	-26.60
7,707.00	0.56	175.55	7,653.27	55.02	605.97	608.42	0.33	0.33	-2.93
7,801.00	0.25	194.80	7,747.27	54.36	605.96	608.33	0.36	-0.33	20.48
7,896.00	0.25	206.67	7,842.27	53.98	605.81	608.15	0.05	0.00	12.49
7,991.00	0.49	204.50	7,937.27	53.42	605.55	607.83	0.25	0.25	-2.28
8,086.00	0.44	215.17	8,032.27	52.76	605.17	607.38	0.11	-0.05	11.23
8,180.00	0.69	202.30	8,126.26	51.94	604.75	606.88	0.30	0.27	-13.69
8,275.00	0.56	198.55	8,221.25	50.97	604.38	606.42	0.14	-0.14	-3.95
8,369.00	0.13	172.55	8,315.25	50.43	604.25	606.23	0.48	-0.46	-27.66
8,463.00	0.19	71.30	8,409.25	50.37	604.41	606.38	0.27	0.06	-107.71
8,557.00	0.25	108.17	8,503.25	50.36	604.76	606.72	0.16	0.06	39.22
8,652.00	0.25	144.67	8,598.25	50.12	605.07	607.01	0.16	0.00	38.42
8,747.00	0.63	190.80	8,693.25	49.44	605.09	606.96	0.52	0.40	48.56
8,842.00	0.63	208.30	8,788.24	48.47	604.75	606.52	0.20	0.00	18.42
8,936.00	0.69	200.42	8,882.24	47.48	604.31	605.98	0.12	0.06	-8.38
9,030.00	0.38	237.67	8,976.23	46.79	603.85	605.45	0.48	-0.33	39.63
9,125.00	0.38	259.55	9,071.23	46.56	603.27	604.85	0.15	0.00	23.03
9,219.00	0.50	241.29	9,165.23	46.31	602.60	604.16	0.19	0.13	-19.43
9,314.00	0.75	194.42	9,260.22	45.51	602.08	603.56	0.58	0.26	-49.34
9,410.00	0.25	207.05	9,356.22	44.71	601.83	603.23	0.53	-0.52	13.16
9,505.00	0.56	45.92	9,451.22	44.85	602.07	603.48	0.84	0.33	-169.61
9,600.00	0.50	51.42	9,546.21	45.43	602.73	604.20	0.08	-0.06	5.79
9,695.00	0.31	83.05	9,641.21	45.72	603.31	604.80	0.30	-0.20	33.29
9,830.00	0.63	156.80	9,776.21	45.08	603.96	605.39	0.46	0.24	54.63
BHL-K1BS	,								
9,873.62	0.63	156.80	9,819.82	44.64	604.15	605.53	0.00	0.00	0.00
XT.TD			-,		231.10	550.00	0.00	0.00	0.00
9,880.00	0.63	156.80	9,826.20	44.58	604.18	605.55	0.00	0.00	0.00

Casing Points

Measured Vertical Casing Hole Depth Depth Diameter Diameter (ft) (ft) (in) Name (in) 2,840.00 2,832.76 9 5/8" 9.62 12.25



Survey Report



Company:

ANADARKO PETROLEUM CORP.

Project:

UINTAH COUNTY, UTAH (nad 27)

Site:

NBU 922-18 PAD EFKL

Well:

Wellbore: Design:

NBU 922-18K1BS

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well NBU 922-18K1BS

KB ELEVATION @ 4925.50ft (HP 298)

KB ELEVATION @ 4925.50ft (HP 298)

Minimum Curvature

EDM 2003.21 Single User Db

Survey Annotations

Measured Depth (ft)

Vertical Depth

Local Coordinates +N/-S (ft)

+E/-W (ft)

Comment

9,880.00

(ft) 9,826.20

44.58

604.18

EXT.TD

Checked By:	Approved By:	Date:	



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